

# EASE RETUR

## MONTANA

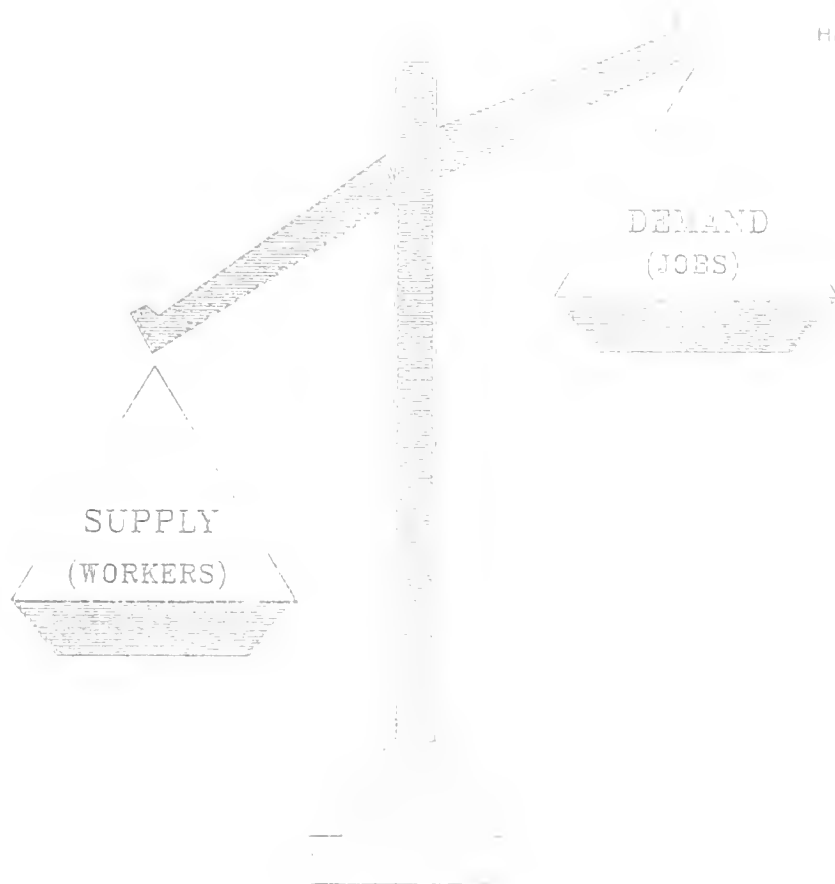
### SUPPLY DEMAND

#### REVIEW

FOURTH EDITION  
OCTOBER 1987

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THE MONTANA  
OCCUPATIONAL  
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# MONTANA SUPPLY/DEMAND REPORT

October, 1987

State of Montana  
Ted Schwinden, Governor

Department of Labor and Industry  
Mary M. Hartman, Commissioner

**Produced by:**

The Montana State Occupational  
Information Coordinating  
Committee (SOICC)

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DEPARTMENT OF LABOR AND INDUSTRY  
EMPLOYMENT POLICY DIVISION



TED SCHWINDEN, GOVERNOR

P O BOX 1728

STATE OF MONTANA

HELENA, MONTANA 59624

Dear Reader:

The "Montana Supply/Demand Report" represents the continuing effort of the Montana State Occupational Information Coordinating Committee (SOICC) to provide up-to-date, comprehensive and reliable labor market information for use in planning education and training programs.

While fulfilling the mandates set forth in the Job Training Partnership Act (JTPA) and the Carl Perkins Vocational Education Act, this publication should be helpful to anyone interested in the future educational and occupational needs of Montana.

We welcome your comments or suggestions on this report.

Sincerely,

A handwritten signature in cursive script that reads "Bob Rafferty".

Bob Rafferty, Chief  
Research & Analysis Bureau



## TABLE OF CONTENTS

Montana SOICC Committee Members . . . . .	1
Acknowledgements . . . . .	2
Points to Remember . . . . .	3
Introduction . . . . .	4
Organization of Reports . . . . .	7
Demand Information . . . . .	9
Supply Information . . . . .	13
Measures of Supply . . . . .	17
Analysis Information . . . . .	18
Summary . . . . .	20
Cluster List . . . . .	21
Montana Supply/Demand Graphs and Reports:	
Cluster Totals . . . . .	22
Agriculture Cluster . . . . .	25
Graphic Arts Cluster . . . . .	44
Health Cluster . . . . .	60
Liberal Arts and Languages Cluster . . . . .	88
Marketing Cluster . . . . .	97
Office Cluster . . . . .	118
Public Service Cluster . . . . .	143
Skill Cluster . . . . .	153
Services Cluster . . . . .	181
Technology Cluster . . . . .	209
Alphabetical Listing of Occupation and Training Program Titles . . . .	240





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Robert N. Arnold, Program Officer

October, 1987



## ACKNOWLEDGEMENTS

The information contained within this publication would not have been possible without the joint effort and cooperation of the Montana SOICC's Technical Steering Committee (TSC). The TSC consists of representatives from the SOICC's six member agencies, and they are recognized for their continued guidance and support. Current TSC members include:

- o Phil Brooks, Economist, Office of Research and Information Services, Department of Commerce
- o Paul Dunham, Director, Research and Services, Office of the Commissioner of Higher Education
- o Constance Enzweiler, Area Service Manager, Montana Career Information System
- o Tom Hayes, Employment and Training Specialist, Employment Policy Division, Department of Labor and Industry
- o Mickey Hines, Administrative Officer, Job Service Division, Department of Labor and Industry
- o Bob Jahner, Program Officer, Rehabilitative/Visual Services Division, Department of Social and Rehabilitation Services
- o Leonard Lombardi, Agricultural Education Specialist, Administrative/Vocational Education Services, Office of Public Instruction
- o Bob Rafferty, Chief, Research and Analysis Bureau, Employment Policy Division, Department of Labor and Industry

Special thanks are extended to the staff people at the Montana Career Information System and the Office of the Commissioner of Higher Education, Montana University System; the Research and Analysis Bureau and the Job Service Division, Montana Department of Labor and Industry; Administrative/Vocational Education Services, Montana Office of Public Instruction; and the Rehabilitative/Visual Services Division, Montana Department of Social and Rehabilitation Services. All offered valuable insight into the needs of the audiences and users they serve.

The efforts of Kate Kahle, SOICC Data Base Technician, have made a considerable contribution to this publication. Kate updated, edited, typed, proofed, and assisted in writing much of the information contained within the 1987 edition of the Montana Supply/Demand Report.



## Points to Remember About the Montana SOICC

- o The Montana SOICC is a Committee.
- o The SOICC and its work are really an extension of each of its member agencies and their individual agency work.
- o All of the SOICC's work is accomplished through interagency cooperation.
- o The SOICC compiles data from many agencies, then processes and analyzes the data in a technically appropriate manner to produce information usable by program planners and administrators.
- o The SOICC's work minimizes duplication between agencies and improves the availability of useful information (particularly important in times of reduced budgets).
- o The SOICC provides a formal structure that links the work done by education and labor agencies in Montana.
- o The SOICC is responsible for designing, implementing, and maintaining a statewide, comprehensive Occupational Information System (OIS) based on current supply (workers) and demand (jobs).

For further information, contact:

The Montana State Occupational Information  
Coordinating Committee (SOICC)  
P.O. Box 1728  
Helena, Montana 59624  
Phone: (406) 444-2741

## Introduction

A continuing challenge facing education and training institutions is to identify, design, and offer programs that serve both the needs of individual participants and the needs of the economy and society as a whole. It is crucial that training programs designed to prepare individuals for specific occupations be realistic in light of anticipated job openings (demand) and the expected number of persons available for and prepared to fill them (supply).

While a number of factors must be considered in the design of training strategies, it is clear that occupational information can serve as a valuable asset to the planner. Recent legislation--in particular, the Carl Perkins Vocational Education Act of 1984 and the Job Training Partnership Act (JTPA) of 1982--have stressed the value of providing and using occupational information. By mandating the development of national, state, and local occupational information systems (OIS), the common occupational information needs of vocational education and employment and training programs can be met, and special attention to the labor market information needs of youth and adults can also be given.

An OIS adds an important dimension to planning processes because it provides comprehensive data on current and anticipated labor market conditions. Access to this information has several potential benefits for education and training institutions. For example, it may enable these institutions to play a greater role in economic development efforts or to respond to employers' needs in a more systematic and timely fashion. The OIS offers planners a broad perspective of employment needs and an efficient means of learning about local labor market conditions.

An OIS, however, cannot provide a planner with a definite quantitative indicator of what to do about a program, for example, "30 additional people need to be trained in program X." Analysis and interpretation of

possible causes for labor imbalances is not an exact science. Judgment, reason, and the experience of the planner, program advisory groups, and others all need to be considered in analyzing occupational information as a factor in program planning decisions.

An OIS can help planners make better informed decisions. It saves time and increases efficiency by flagging potential problems and verifying areas that are performing well. This allows planners to focus their attention and limited resources on areas that require action. An OIS can also provide planners with documentation to justify program decisions and thus aid in obtaining approval of plans and funding. In times of limited resources, demonstrating the potential impact of a program on the economy of the community and the state could prove to be a critical point in obtaining funding. Use of a comprehensive integrated OIS can help planners justify decisions on the basis of economic impact and answer questions that may be raised in the plan approval process.

Planning decisions can have broad policy implications and do involve consideration of many factors other than labor market conditions. Among them are:

- o Financial resources
- o Availability of qualified teachers
- o Presence of tenured faculty
- o Space
- o Facilities
- o Equipment
- o Materials and curricula
- o Student interest

Final recommendations regarding planning decisions frequently involve compromises or trade-offs of some kind between competing goals or objectives. These decisions can only be made by persons involved with and responsible for administering programs. What an OIS can provide is a common data base for coordinated planning within a state and a way for planners to identify and analyze areas that need attention.

The primary purpose for establishing SOICCs was, and continues to be, the development, implementation, and maintenance of a comprehensive occupational information system based on supply (workers) and demand (jobs). These data, in conjunction with data from the Montana Career Information System (MCIS), are used to support the career planning, guidance, and job search needs of various target populations.



## Organization of Reports

The reports in this publication are made up of demand, supply, and analysis data.

The reports are organized by clusters. A cluster is the grouping of education/training programs that have common curricula, and common occupations that can be entered as an outcome of the training. Occupational demand, supply, and analysis characteristics are related to each other by being organized into clusters. Montana's OIS currently contains 70 clusters.

The reports are organized alphabetically by major cluster (i.e., Agriculture Cluster, Skills Cluster), then by subcluster (i.e., AG01 Agriculture Business, SK01 Electrical and Electronic Technology). There is a demand, supply, and analysis report for most clusters. (Some clusters, such as "LA01, Liberal Arts and Foreign Languages", may not have Montana data for occupations. Therefore there would be no demand report for this cluster.)

All reports are identified at the top by what data they represent, i.e., "Demand Report," "Supply Report," or "Analysis Information." The reports will also show the cluster title and number.

Title and Code reflect the title of the occupation or training program, in relation to the reporting system being used for each type report.

- o Demand: Demand information is reported in Occupational Employment Statistics (OES) code. This is an 8-digit code.
- o Supply: Supply information is reported in Classification of Instructional Programs (CIP) code by Montana education agencies. The CIP is a 6-digit code. Supply is also reported by Dictionary of Occupational Titles (DOT) code by Montana employment and training agencies. The DOT is a 9-digit code.

- o Analysis: Analysis information is reported in Dictionary of Occupational Titles code by Job Service, Apprenticeship and Training Bureau, and the Military Occupational Profile.

A description of data elements for each type of report follows.

## Demand Information

Demand is defined in this report as jobs. The demand portion of this report consists of the following information:

OES Matrix Code (Occupational Employment Statistics) refers to an eight-digit code derived from an OES five-digit survey code, plus a three-digit prefix number, that is usually--but not always--compatible with other occupational classification structures.

### Demand Data Elements:

Current Employment refers to the number of people who were employed in Montana by occupation at the time the OES survey was completed.

Projected Employment refers to an estimate of the number of people expected to be employed in the corresponding occupation in 1990. These data are computed by incorporating two factors: 1) openings due to growth or decline in the level of occupational demand, and 2) replacement demand resulting from labor force separations. Growth and decline in occupational demand occur because of changes in business/economic conditions and technological advancements. Projections are formulated with procedures established by the U.S. Department of Labor's Bureau of Labor Statistics; projections are later used to convert industry employment (captured via survey) to occupational employment in each industry. Results are totaled across industries to obtain projected employment by occupation.

Average Growth refers to the average annual growth due to business/economic fluctuations and technological advancements.

Average Replacements refers to job openings that occur as individuals leave their respective occupation because of retirement or death. Job openings which occur due to occupational transfers and migration are not incorporated because valid data are not available at this time.

Average Annual Openings is comprised of two components: 1) job openings resulting from industry growth, and 2) job openings resulting from separation (deaths and retirements). Together, these components comprise total average annual openings by occupation.

Total contains the cluster total of the demand report. By comparing the cluster total of average annual openings to the supply cluster total, a comparison of the average annual job openings and the number of individuals trained (and seeking work) in this occupation is shown. Ultimately, a determination is made to substantiate whether or not training programs should be increased, decreased, or modified using new curricula.

Limitations in OES Data: Occupational employment projections produced by the OES program should not be considered precise measurements, but are "best estimates" based on a sample of Montana employers and historical industry employment trends. OES demand data offers users a standard and useful tool for making planning decisions. There is no source of available data that will give users an exact and current picture of occupational demand in their area. Users of demand data should be aware of the following:

- o The data cover non-agricultural wage and salaried workers only (not agriculture or self-employed workers);
- o Staffing patterns are based on statewide data and do not reflect possible variations from area to area of the state;
- o Data are estimated, based on past trends, and therefore cannot predict unusual current or future economic conditions, or capture new occupations;
- o Data should be used as estimates, not as exact figures for a particular point in time for the state; and
- o Average annual openings reflect growth and replacement, not current openings due to turnover and mobility.

### Further OES Information

Montana's 1990 industry/occupation projections were produced to provide reliable estimates of occupational demand. The projections were produced using a matrix based on the Occupational Employment Statistics (OES) survey. Prior to last year, the projections were generated using 1980 census-based matrix. The OES survey-based matrix is more accurate, as well as reliable, because it deals with employers rather than households.

There are three major components to the Occupational Employment Statistics program:

- 1) Survey of non-farm wage and salary employment. The OES survey involves a periodic mailing of survey forms to non-agricultural employers. This is done in a three year cycle. Different major industries are surveyed each year so that the entire sample is completed every three years.
- 2) Industry/Occupation matrix of staffing patterns. The matrix is a model representing the occupational staffing patterns of each industry. The staffing patterns are based on the result of the OES survey. An important function of the matrix is that it shows where people work (industries) and what they do (occupations).
- 3) Projections. The third component of the program is the projections, which is the primary goal of the OES program. There are three elements of the projections: industry projections, occupation projections, and job openings. Job openings are made up of openings due to growth and openings due to separations from the labor force.

The projections show what is likely to happen barring major changes from past trends. The major economic assumptions used by the U.S. Bureau of Labor Statistics have been observed in these projections.

The assumptions are as follows:

- 1) The institutional framework of our economy will not change radically;
- 2) There will be no major events such as a widespread, long-lasting energy shortage or a war which would significantly alter the industrial structure of our economy or the rate of economic growth; and
- 3) Current technological, scientific, and social trends, such as values placed on work, education, income, and leisure, will continue.

The projection information can help us look into the future with some confidence. It is necessary to match individuals and jobs to decrease unemployment and increase job satisfaction; this could also benefit the business community and taxpayers. Through the use of the information provided, better decisions can be made for the future by having a more realistic knowledge of Montana's employment trends.

## Supply Information

Supply is defined as workers. Current Supply is the number of individuals currently employed in a particular occupation, plus the number of individuals qualified and currently seeking employment in Montana in that occupation. Montana's Occupational Information System (OIS) focuses on those who are trained and available for employment in specific occupations in Montana at given points in time. An explanation of all elements contained within that report follows.

Completers is defined as the number of people completing training programs in Montana. Each training agency reports completers using one of two classification system code assignments. The six-digit code refers to the Classification of Instructional Programs (CIP) and the nine-digit code refers to the Dictionary of Occupational Title (DOT) code.

The numbers to the right of the aforementioned codes reflect the supply (workers) which is printed in the corresponding supply column.

A common limitation in reporting completers is duplication between reporting agencies. Through studies, it has been determined that the duplication rate for completers is not more than 10% between and among state agency reporting systems.

### Supply Data Elements:

Public Second (Secondary) refers to the number of high school students who have completed a vocational education training program and are available for work in the state. Limitations in this reporting focus on duplication. Class-based reporting systems may result in duplicate program enrollment or completion counts and follow-up data may be based on a limited sample size. Secondary training program completers are reported in CIP code (6-digit).

Voc Tech (Vocational Technical) represents completers from the five Vocational Technical Centers statewide. Again, class-based reporting often results in duplicate program enrollment or completion counts. Follow-up data may be based on a limited sample size, and a large number of postsecondary enrollees and completers are employed while learning. Vocational Technical training program completers are reported in CIP code (6-digit).

Higher Educ (Higher Education) lists all degrees conferred from all units of the Montana University System, degrees conferred and program completers from community colleges, and degrees conferred and certificates awarded from private colleges statewide. Limitations in this reporting include those mentioned above, unavailable comprehensive follow-up data, and the fact that non-accredited colleges and universities are excluded from reporting systems. Supply information here reflects only the actual number of degrees and certificates awarded. Higher Education degrees conferred are reported in CIP code (6-digit).

JTPA (Job Training Partnership Act) refers to information that was compiled using the JTPA client file. We used information which met the following criteria: eligible clients who received and completed training in either classroom or on-the-job training (OJT) during a one year period beginning July 1, 1985 and ending June 30, 1986. Limitations within this reporting include the fact that the U.S. Department of Labor does not require detail on training programs and clients, and some clients are "recycled" through a number of training programs and could be counted several times because data are not available by Social Security number--only via DOT code. Often, JTPA classroom training occurs through the vocational education system. A JTPA trainee could potentially be counted in vocational education reporting, thus duplicating the counts of the available labor supply for a given occupation. JTPA completers are reported in DOT code (9-digit).



Job Corps reflects those completers from one of three Job Corps training centers statewide. This information shows the number of persons by program category that returned to the state after completing a Job Corps training program or leaving with marketable skills during the period from July 1, 1985 to June 30, 1986. A limitation in these data is that Job Corps centers are not required by any state or federal agency to report completer data. Tabulation of this information was done by the National Occupational Information Coordinating Committee (NOICC). Job Corps training program completers are reported in CIP code (6-digit).

Proprietary (Proprietary Schools) includes completers from private training schools statewide, such as cosmetology schools, real estate schools, tax preparation schools, etc. Limitations: JTPA clients and Voc Rehab clients enrolled in postsecondary career school programs are counted in their respective management information systems as well as by the SOICC's survey of these schools. Unfortunately, those individuals are counted twice in the report's supply data. Proprietary School training program completers are reported in CIP code (6-digit).

Voc Rehab (Vocational Rehabilitation) refers to completers who have been trained with funds provided by Vocational Rehabilitation in the state. Limitations in these data include that clients of Voc Rehab may receive services over an extended period of time and their entry into the labor market is not always known. Some clients may not be obtaining specific occupational skills either; some may obtain generic skills that assist in overcoming handicaps. Job restructuring and job tailoring are key ingredients in vocational rehabilitation. After Voc Rehab training, some clients receive more training from other agencies, so the potential for duplication exists here. Vocational Rehabilitation completers are reported in DOT code (9-digit).

Other supply sources not contained in this report, but which should be

considered when making program training decisions include:

- o Occupational transfers (those who transfer from one occupation to another)
- o The number of people who migrate in/out of Montana
- o Job Service applicants: Job Service applicants provide a partial measure of the number of individuals seeking work through various employment agencies. Because the applicants are registered with Job Service, this measure of occupational supply covers only public sector agency registrants (for more information on this source of supply, contact the Research and Analysis Bureau, Montana Department of Labor and Industry, P.O. Box 1728, Helena, Montana 59624)
- o Re-entrants to the labor force due to change in economic conditions (displaced workers)

MONTANA OCCUPATIONAL INFORMATION SYSTEM

Measures of Supply

Public Secondary	Vocational Technical	Higher Education	Employment Training Programs	Job Corps	Proprietary Schools	Vocational Rehabilitation
Code-1	Code-2	Code-3	Code-4	Code-5	Code-6	Code-7
Measure:	Measure:	Measure:	Measure:	Measure:	Measure:	Measure:
Available for Work	Program Completers	Degrees Conferred	Program Completers in Termination Status	Program Completers	Program Completers	Program Completers Status 18 Excluding 30
Time Period:	Time Period:	Time Period:	Time Period:	Time Period:	Time Period:	Time Period:
July-June	July-June	July-June	July-June	October-September (FFY*)	July-June	October-September (FFY*)
Coverage:	Coverage:	Coverage:	Coverage:	Coverage:	Coverage:	Coverage:
Statewide	Statewide	Statewide	Statewide	Statewide	Statewide	Statewide
Coding System:	Coding System:	Coding System:	Coding System:	Coding System:	Coding System:	Coding System:
Classification of Instructional Programs (CIP) 6-digit	Classification of Instructional Programs (CIP) 6-digit	Classification of Instructional Programs (CIP) 6-digit	Dictionary of Occupational Titles (DOT) 9-digit	Classification of Instructional Programs (CIP) 6-digit	Classification of Instructional Programs (CIP) 6-digit	Dictionary of Occupational Titles (DOT) 9-digit
Reporting System:	Reporting System:	Reporting System:	Reporting System:	Reporting System:	Reporting System:	Reporting System:
Manual	Manual	Mechanized	Mechanized	Mechanized	Manual	Mechanized

## Analysis Information

The Micro-OIS contains analysis information made up of data that includes: 1) apprenticeship program completers, 2) military returnees to the state, 3) Job Service applicants and openings reported in the Employment Security Automated Reporting System (ESARS), 4) Unemployment Insurance claimants from Job Service offices (data not compiled at this time), and 5) wage information compiled by the Research and Analysis Bureau, Department of Labor and Industry. These categories include data that are more definitive sources of occupational information.

Analysis information is printed for each cluster by DOT code (9-digit).

### Analysis Data Elements:

Appren (Apprenticeship) information is collected from the Apprenticeship and Training Bureau, Employment Policy Division, Montana Department of Labor and Industry. This information contains the number of completers of apprenticeship training programs statewide during a one-year period.

Mil Ret (Military Returnees) information is collected by the Department of Defense (DOD) through the Military Occupational Profile. The DOD captures the total number of people who are returning to Montana after being released from all sectors of the military for the period April 1, 1985 through March 31, 1986. This includes people who retire. There are military occupations included in the DOD reporting that are not found in Montana's labor force. Although not all occupations in the military are completely compatible with civilian occupations, they have many transferrable skills and must be considered. Occupations excluded from the analysis reports for compatibility reasons are:

<u>DOT Code</u>	<u>DOT Title</u>
378.367-010	Artillery or Naval Gunfire Observer
378.367-030	Reconnaissance Crewmember
378.683-010	Amphibian Crewmember
378.683-014	Powered Bridge Specialist

<u>DOT Code</u>	<u>DOT Title</u>
378.683-018	Tank Crewmember
378.684-014	Combat Rifle Crewmember
378.684-018	Field Artillery Crewmember
378.684-022	Infantry Indirect Fire Crewmember
378.684-026	Infantry Weapons Crewmember
378.684-030	Light Air Defense Artillery Crewmember
632.261-010	Aircraft-Armament Mechanic
632.261-018	Ordnance Artificer
828.281-018	Missile Facilities Repairer
911.131-010	Boatswain
911.363-014	Quartermaster
911.364-010	Able Seaman
911.584-010	Marine Oiler

UI Clmts (Unemployment Insurance Claimants) data has not been compiled.

Tot App (total applicants) and Tot Open (total openings) information contains ESARS data from the Job Service offices in Montana. Caution should be used when using this data. ESARS data is reported from Table B96. The specific DOTs summarized on Table B96 are selected on the basis of importance to Employment Testing, Labor Certification, Occupational Analysis, and Labor Market Information. Generally, the decision to display these DOTs is based on two criteria:

- 1) Importance to the national labor market in the current program year indicated by receipt of over 1000 job openings in that particular DOT; and
- 2) Importance to program operations in the areas of Employment Testing, Labor Certification, or Labor Market Information during the current program year.

Avg Hrwage (Average Hourly Wage) information is taken from the "Fringe Benefit and Wage Information" publication provided by the Research and Analysis Bureau, Department of Labor and Industry. The information was obtained through a survey of employers doing business in private nonagricultural industries within Montana.

This analysis information should be used in conjunction with the supply of program completers and the estimated annual average job openings, along with any other information available for planning training programs.

## Summary

In summary, statewide supply/demand data are extremely useful as a planning and counseling tool. As mentioned within each data reporting source, these data do have limitations. Each counselor's and planner's professional judgment, combined with all available local data, is paramount in the planning process.

If you encounter problems using this report, call the Montana SOICC at (406) 444-2741 for further information and explanation.

MONTANA OCCUPATIONAL AND EDUCATION/TRAINING  
PROGRAM CLUSTERS  
CLUSTER LIST

Agriculture Cluster

AG01 Agriculture Production  
AG02 Agriculture Business  
AG03 Agriculture Mechanics  
AG04 Horticulture & Landscaping  
AG05 Forestry & Lumber Production  
AG06 Fish & Wildlife  
AG07 Animal Care

Graphic Arts & Fine Arts Cluster

GX01 Advertising & Writing  
GX02 Drafting  
GX03 Commercial Art & Fine Arts  
GX04 Printing, Graphic Arts, & Photography  
GX05 Mass Communications

Health Cluster

HE01 Medical Records  
HE02 Dental Technology  
HE03 Medical Laboratory  
HE04 LPN & Surgical Technology  
HE05 Medical Nursing Assistance  
HE06 Treatment Services  
HE07 Radiologic Technology  
HE08 Registered Nurse  
HE09 Physician

Liberal Arts & Languages Cluster

LA01 Liberal Arts & Foreign Languages  
LA02 History & Philosophy  
LA03 Library Arts

Marketing Cluster

MK01 Real Estate Marketing  
MK02 Marketing Management  
MK03 Retail Marketing & Manufacturing  
MK04 Recreation & Tourism  
MK05 Insurance  
MK06 Finance

Office Cluster

OF01 Bookkeeping & Accounting  
OF02 Clerical Office Practice  
OF03 Communications  
OF04 Personnel, Labor Relations, & Law  
OF05 Secretarial Office Practice  
OF06 Administration/Office Management  
OF07 Key Entry & Computer Operation  
OF08 Computer Science & Programming

Public Service Cluster

PS01 Emergency Medical Technician  
PS02 Fire & Fire Safety  
PS03 Police Science & Criminology

Skill Cluster

SK01 Electrical & Electronic Technology  
SK02 Appliance Repair  
SK03 Welding  
SK04 Carpentry & Construction Trades  
SK05 Heavy Equipment Repair & Operation  
SK06 Transportation & Engine Repair  
SK07 Machine Shop  
SK08 Metalworking  
SK09 Utilities

Service Cluster

SV01 Institutional & Building Service  
SV02 Vehicle Operators & Cleaners  
SV03 Barbering  
SV04 Cosmetology  
SV05 Child Care Services & Teaching  
SV06 Food Production  
SV07 Funeral Services  
SV08 Theological Services  
SV09 Social Work  
SV10 Food Services & Management

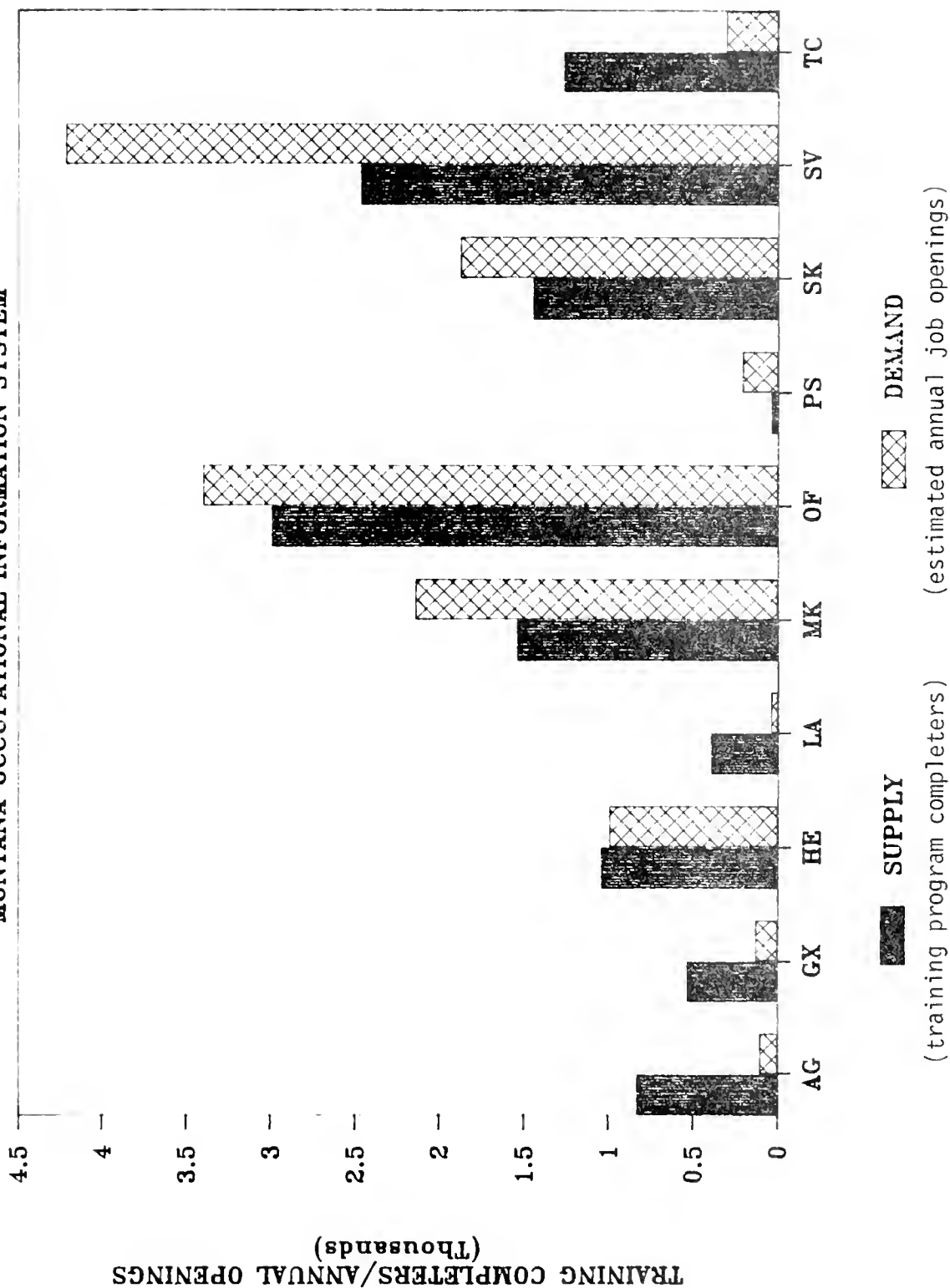
Technology Cluster

TC01 Power Station Operators  
TC02 Civil Technology & Math Science  
TC03 Chemical Technology  
TC04 Environmental Control Technology  
TC05 Mechanical Technology  
TC06 Instrument Technology  
TC07 Textile Technology  
TC08 Aviation  
TC09 Industrial Engineering  
TC10 Natural Resources Technology

\*NOTE: Occupational demand, supply, and analysis information are related to each other by organizing them into clusters. A cluster is defined as "the grouping of education/training programs that have common curricula and occupational objectives coupled with the occupations that can be entered as an outcome of the training. Data are therefore presented via cluster in this report.

# 1985-1986 CLUSTER TOTALS

## MONTANA OCCUPATIONAL INFORMATION SYSTEM





10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D   R E P O R T

STATEWIDE  
TOTAL ANNUAL OPENINGS-MONTANA  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY

ALL CLUSTERS

- OCCUPATION - T I T L E	ESTIMATED 1984-1990 ANNUAL OPENINGS
TOTAL-ALL OCCUPATIONS	12834

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

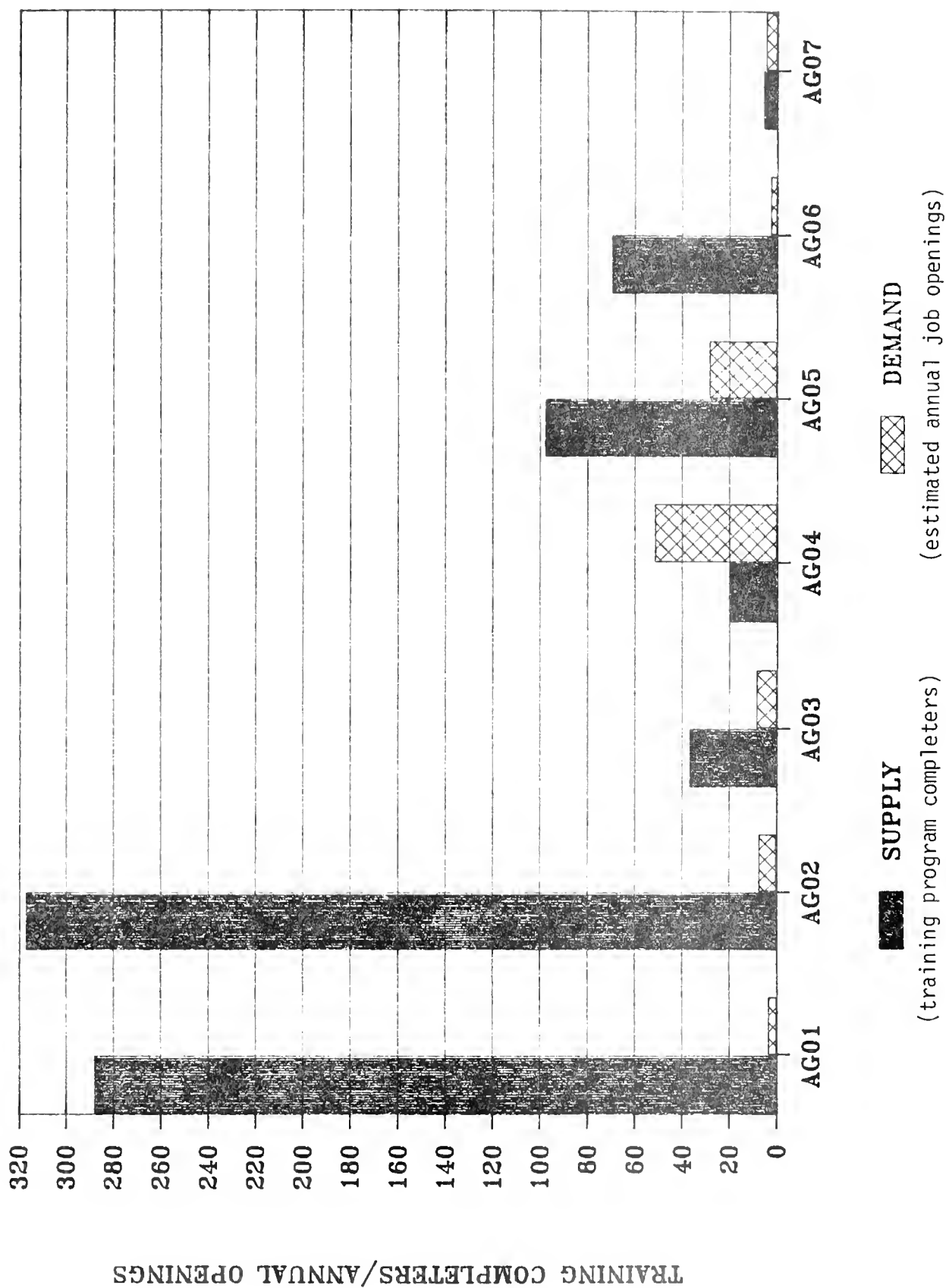
TOTAL TRAINING PROGRAM COMPLETERS-MONTANA

SCHOOL YEAR 1985-86

ALL CLUSTERS

- PROGRAM -	PUBLIC	VOC	HIGHER		JOB	PROPR	VOC	TOTAL
TITLE	SECOND	TECH	EDUC	JTPA	CORPS	IETARY	REHAB	*****
TOTAL- COMPLETERS	2101	951	5960	1069	191	1855	240	12344

# AGRICULTURE CLUSTERS



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: AGRICULTURE PRODUCTION

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE AG01

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
AGRICULTURAL & FOOD SCIENTI	22224305	64	69	1	2	3
GRADERS & SORTERS: AGRICULT	66979011	21	17	0	1	1
TOTALS		85	86	1	3	4

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: AGRICULTURE PRODUCTION  
SCHOOL YEAR 1985-86

CLUSTER CODE AG01

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
AGRICULTURAL PRO	01.0301	253							253
GENERAL MANAGER, 180.167-018								1	1
BOTANY, GENERAL	26.0301			15					15
PLANT PATHOLOGY	26.0305			3					3
SALES REPRESENTA	272.357-014				1				1
FARMER, CASH GRA	401.161-010							2	2
FARMWORKER, GRAI	401.683-010				2				2
FARMWORKER, FIEL	404.687-010				1				1
SUPERVISOR, INSE	408.137-010				1				1
SPRAYER, HAND	408.684-014				1				1
FARMWORKER, LIVE	410.664-010				3				3
MILKER, MACHINE	410.685-010				1				1
FARMWORKER, GENE	421.683-010				1			1	2
FARMWORKER, GENE	421.687-010				1				1
LABORER, STORES	922.687-058				1				1
***TOTALS		253		18	13			4	288

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
ANALYSIS INFORMATION

STATEWIDE  
CLUSTER TITLE: AGRICULTURE PRODUCTION

MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE AG01

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	OPEN	AVG. HRWAGE
162.167-010	MANAGER, GRAIN ELEVATOR	0	0	0	0	0	7.29
403.687-018	HARVEST WORKER, FRUIT	0	0	0	17	4	N.A.
404.687-010	FARMWORKER, FIELD CROP 2	0	0	0	6	2	N.A.
404.687-014	HARVEST WORKER, FIELD CROP	0	0	0	8	3	N.A.
410.134-010	SUPERVISOR, LIVESTOCK-YARD	0	0	0	0	0	5.34
410.674-018	LIVESTOCK-YARD ATTENDANT	0	0	0	0	0	4.36
410.684-010	FARMWORKER, DAIRY	0	0	0	47	1	N.A.
410.687-022	SHEEP HERDER	0	0	0	32	0	N.A.
529.132-054	SUPERVISOR, FEED MILL	0	0	0	0	0	9.03
529.687-186	SORTER, AGRICULTURAL PRODUCE	0	0	0	61	5	N.A.
920.687-134	PACKER, AGRICULTURAL PRODUCE	0	0	0	9	0	N.A.
921.683-026	GRAIN-ELEVATOR OPERATOR	0	0	0	0	0	5.89

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: AGRICULTURE BUSINESS

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE AG02

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
FARM & HOME MANAGEMENT ADVI	22631323	278	284	1	7	8
TOTALS		278	284	1	7	8

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: AGRICULTURE BUSINESS  
SCHOOL YEAR 1985-86

CLUSTER CODE AG02

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
AGRICULTURAL BUS	01.0101			111					111
AGRICULTURAL BUS	01.0102			7					7
AGRICULTURAL ECO	01.0103			3					3
FARM & RANCH MAN	01.0104			1					1
AGRICULTURAL BUS	01.0199			22					22
AGRICULTURAL SCI	02.0101			10					10
ANIMAL SCIENCES,	02.0201			3					3
LIVESTOCK	02.0208			4					4
AGRONOMY	02.0402			10					10
RANGE MANAGEMENT	02.0409			8					8
RANGE MANAGER	040.061-046							1	1
AUCTIONEERING	08.0701						137		137
***TOTALS				179			137	1	317



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D    R E P O R T

STATEWIDE  
CLUSTER TITLE: AGRICULTURE MECHANICS  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE AG03

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
FARM EQUIPMENT MECHANICS	77285321	322	310	-1	10	9
TOTALS		322	310	-1	10	9

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: AGRICULTURE MECHANICS

SCHOOL YEAR 1985-86

CLUSTER CODE AG03

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
AGRICULTURAL MEC	01.0201		15						15
AGRICULTURAL POW	01.0204	2							2
AGRICULTURAL ENG	013.061-010				1				1
AGRICULTURAL ENG	14.0301			15					15
FARM-EQUIPMENT M	624.281-010				2				2
FARM-MACHINERY S	624.381-018				2				2
***TOTALS		2	15	15	5				37

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
ANALYSIS INFORMATION

STATEWIDE  
CLUSTER TITLE: AGRICULTURE MECHANICS  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE AG03

CODE	TITLE	MIL APPREN	UI RETURN	CLAIM	TOTAL APPS	TOTAL OPEN	AVG HRWAGE
624.281-010	FARM-EQUIPMENT MECHANIC 1	0	0	0	23	7	N.A.
624.381-018	FARM-MACHINERY SET-UP MECHANI	0	0	0	0	0	6.49

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D    R E P O R T

STATEWIDE

CLUSTER TITLE: HORTICULTURE & LANDSCAPING

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE AG04

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
NURSERY WORKERS	66979005	56	70	2	2	4
GARDENERS & GROUNDSKEEPERS	66979014	874	985	19	29	48
TOTALS		930	1055	21	31	52

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: HORTICULTURE & LANDSCAPING  
SCHOOL YEAR 1985-86

CLUSTER CODE AG04

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
SOIL SCIENCES	02.0501			4					4
FLORAL DESIGNER	142.081-010				4				4
HORTICULTURAL WO	405.684-014				1				1
HORTICULTURAL WO	405.687-014				1				1
SUPERVISOR, PARK	406.134-014				2				2
GROUNDKEEPER (G	406.687-010				3				3
LANDSCAPE GARDEN	408.161-010				5				5
***TOTALS				4	16				20

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
ANALYSIS INFORMATION

STATEWIDE  
CLUSTER TITLE: HORTICULTURE & LANDSCAPING

MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE AG04

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
142.081-010	FLORAL DESIGNER	0	0	0	0	0	4.87
405.684-014	HORTICULTURAL WORKER 1	0	0	0	0	0	4.21
406.684-014	GROUNDSKEEPER, INDUSTRIAL-COM	0	0	0	0	0	5.16
408.161-010	LANDSCAPE GARDENER	0	0	0	149	32	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE  
CLUSTER TITLE: FORESTRY & LUMBER PRODUCTION  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE AG05

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
FORESTER, CONSERVATION SCIE	22224302	223	224	0	6	6
FARM, FORESTRY SUPERVISORS	66272001	78	71	0	2	2
FALLERS & BUCKERS	66373002	625	532	-15	14	-1
CHOKE SETTERS	66373005	223	190	-5	5	0
LOG HANDLING EQUIPMENT OPER	66373008	268	238	-4	4	0
ALL OTHER TIMBER CUTTING WO	66373099	12	10	0	0	0
FOREST & CONSERVATION WORKE	66979002	111	115	1	4	5
LOG GRADERS & SCALERS	66979008	58	53	0	2	2
AGRIC., FOREST, FISH (NO DE	66979999	338	347	2	11	13
HEAD SAWYERS	77592305	76	72	0	2	2
TOTALS		2012	1852	-21	50	29

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: FORESTRY & LUMBER PRODUCTION

SCHOOL YEAR 1985-86

CLUSTER CODE AG05

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
FOREST ENGINEER	005.167-018							1	1
FORESTRY PRODUCT	03.0401			5					5
FORESTRY & RELAT	03.0501	19		19					19
FOREST MANAGEMEN	03.0506			43					43
FORESTRY & RELAT	03.0599			4					4
CHRISTMAS-TREE F	451.687-010					1			1
FOREST-FIRE FIGH	452.687-014					17			17
LOGGER, ALL-ROUN	454.684-018					5			5
TREE CUTTER	454.684-026					1			1
CHOPPER (WOOD PR	564.687-010							1	1
LUMBER HANDLER (	922.687-070							1	1
***TOTALS		19		71	24			3	98



MONTANA OCCUPATIONAL INFORMATION SYSTEM  
ANALYSIS INFORMATION

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE AG05

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
040.061-034	FORESTER	0	0	0	59	18	N.A.
452.364-010	FORESTER AIDE	0	0	0	604	177	N.A.
452.687-014	FOREST-FIRE FIGHTER	0	0	0	106	563	N.A.
454.384-010	FALLER I	0	0	0	0	0	12.51
454.683-010	TREE-SHEAR OPERATOR	0	0	0	0	0	10.65
454.684-010	BUCKER	0	0	0	0	0	10.43
454.684-018	LOGGER, ALL-ROUND	0	0	0	0	0	11.10
454.687-010	CHAINSAW OPERATOR	0	0	0	0	0	10.37
455.487-010	LOG SCALER	0	0	0	0	0	11.26
663.682-010	BARKER OPERATOR (VENEER/PLYWO	0	0	0	0	0	9.29
665.482-018	TIMBER-SIZER OPERATOR	0	0	0	0	0	10.08
667.482-010	LOG-CUT-OFF SAWYER, AUTOMATIC	0	0	0	0	0	8.70
667.482-022	TRIMMER SAWYER	0	0	0	0	0	10.01
667.662-010	HEAD SAWYER	0	0	0	0	0	11.94
667.682-058	RESAW OPERATOR (WOODWORKING)	0	0	0	0	0	9.68
667.686-014	SAWMILL WORKER	0	0	0	0	0	8.38
669.587-010	GRADER (WOODWORKING)	0	0	0	0	0	10.00
669.686-018	CHAIN OFF-BEARER	0	0	0	0	0	8.37
921.683-058	LOG LOADER	0	0	0	0	0	11.74
921.687-014	CHOKE SETTER (LOGGING)	0	0	0	0	0	12.51

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D    R E P O R T

STATEWIDE

CLUSTER TITLE: FISH & WILDLIFE

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE AG06

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
FISH & GAME WARDENS	55363041	66	68	0	3	3
TOTALS		66	68	0	3	3

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: FISH & WILDLIFE  
SCHOOL YEAR 1985-86

CLUSTER CODE AG06

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JTPA	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC		CORPS	IETARY	REHAB	*****
WILDLIFE MANAGEM	03.0601			46					46
TAXIDERMIST	199.261-010				1				1
ZOOLOGY, GENERAL	26.0701			23					23
***TOTALS				69	1				70

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: ANIMAL CARE

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE AG07

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
VETERINARIANS, VET. INSPECT	22732114	3	3	0	0	0
ANIMAL CARETAKERS, EXCEPT F	66979017	117	124	1	4	5
TOTALS		120	127	1	4	5

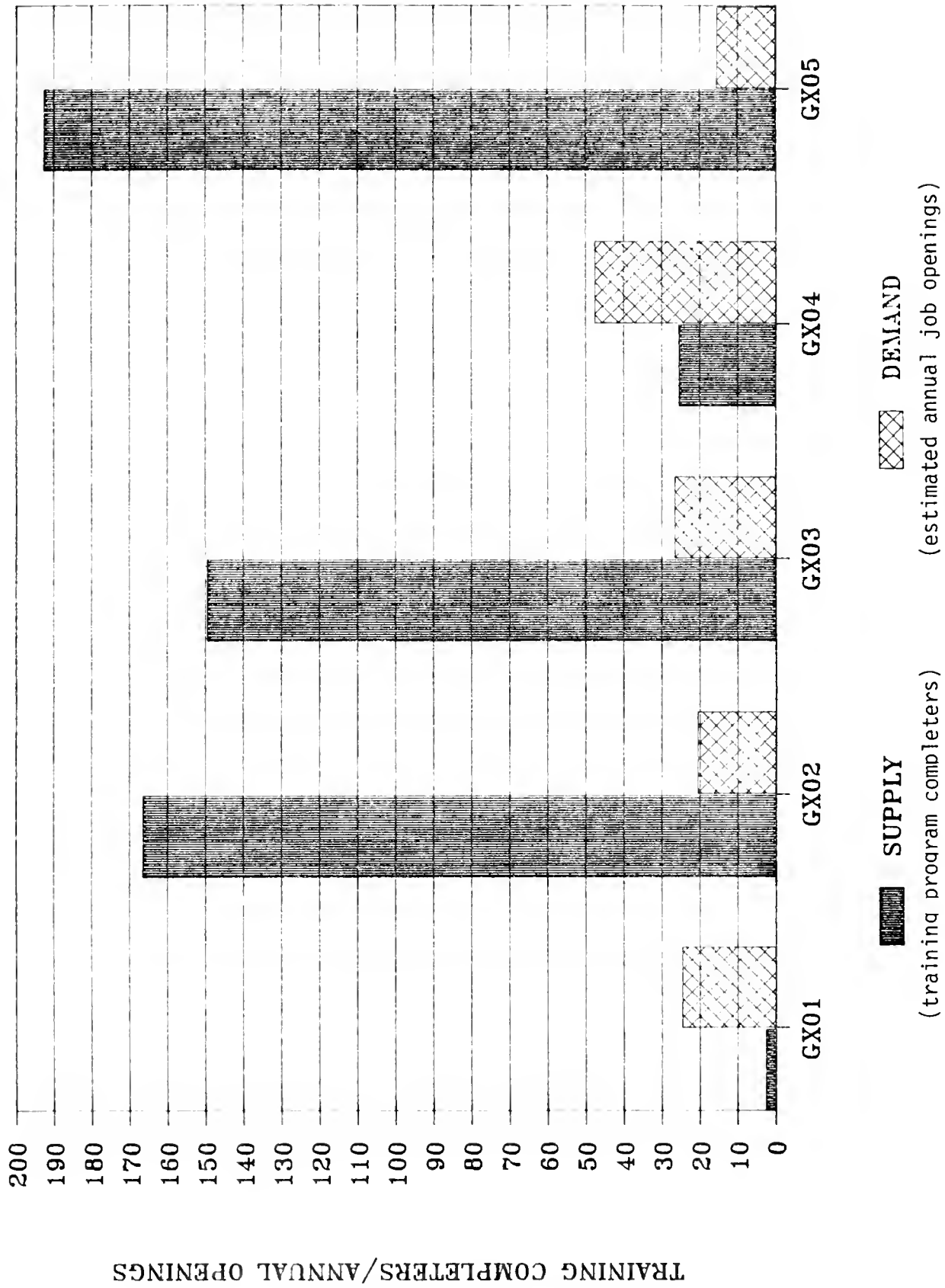
10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: ANIMAL CARE  
SCHOOL YEAR 1985-86

CLUSTER CODE AG07

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
STABLE ATTENDANT	410.674-022							1	1
ANIMAL KEEPER	412.674-010				1				1
HORSESHOER	418.381-010							1	1
DOG GROOMER	418.674-010							2	2
HORSE TRAINER	419.224-010							1	1
***TOTALS						1		5	6

# GRAPHIC ARTS CLUSTERS



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE  
CLUSTER TITLE: ADVERTISING & WRITING  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE GX01

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
WRITERS, AUTHORS & EDITORS	22834001	336	358	4	11	15
PUBLIC RELATIONS SPECIALIST	22834008	206	214	1	7	8
ADVERTISING CLERKS	44353908	47	48	0	2	2
TOTALS		589	620	5	20	25

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: ADVERTISING & WRITING

SCHOOL YEAR 1985-86

CLUSTER CODE GX01

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC	JTPA	CORPS	IETARY	REHAB *****
WRITER, TECHNICA	131.267-026						1	1
PUBLIC-RELATIONS	165.067-010						2	2
***TOTALS							3	3



10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
ANALYSIS INFORMATION

STATEWIDE  
CLUSTER TITLE: ADVERTISING & WRITING  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE GX01

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	OPEN	AVG. HRWAGE
131.067-014	COPY WRITER	0	0	0	0	0	8.14
131.267-026	WRITER, TECHNICAL PUBLICATION	0	0	0	26	3	8.47
132.037-022	EDITOR, FARM JOURNAL	0	0	0	0	0	7.83
163.167-010	MANAGER, ADVERTISING	0	0	0	0	0	8.56
165.067-010	PUBLIC-RELATIONS REPRESENTATI	0	0	0	74	4	11.43
209.387-030	PROOFREADER	0	0	0	3	1	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D    R E P O R T

STATEWIDE

CLUSTER TITLE: DRAFTING

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE GX02

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
DRAFTERS	22122512	483	515	5	16	21
TOTALS		483	515	5	16	21

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: DRAFTING  
SCHOOL YEAR 1985-86

CLUSTER CODE GX02

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
DRAFTER, ARCHITE	001.261-010							1	1
DRAFTER, COMMERC	017.261-026				2				2
ARCHITECTURE	04.0201			54					54
DRAFTING & DESIG	15.0202			18					18
MECHANICAL DESIG	15.0805			6					6
DRAFTING, GENERA	48.0101	67	19						86
***TOTALS		67	19	78	2			1	167

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM

A N A L Y S I S I N F O R M A T I O N

STATEWIDE

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER TITLE: DRAFTING

CLUSTER CODE GX02

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	OPEN	AVG. HRWAGE
001.261-010	DRAFTER, ARCHITECTURAL	0	0	0	65	8	9.12
003.281-010	DRAFTER, ELECTRICAL	0	0	0	10	1	N.A.
003.281-014	DRAFTER, ELECTRONIC	0	0	0	2	0	9.36
005.281-010	DRAFTER, CIVIL	0	1	0	38	15	9.33
005.281-014	DRAFTER, STRUCTURAL	0	0	0	4	2	N.A.
010.281-014	DRAFTER, GEOLOGICAL	0	0	0	0	0	9.41

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D    R E P O R T

STATEWIDE

CLUSTER TITLE: COMMERCIAL ART & FINE ARTS

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE GX03

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
AUDIO-VISUAL SPECIALISTS	22631508	29	30	0	1	1
TV & MOTION PIC. CAMERA OPE	22834026	35	32	0	0	0
ARTISTS & RELATED WORKERS	22834035	97	110	2	4	6
DESIGNERS	22834038	259	280	4	7	11
MUSICIANS, INSTRUMENTAL	22834051	55	64	2	2	4
PRODUCERS, ACTORS, ENTERTAI	22834056	9	10	0	0	0
MOTION PICTURE PROJECTIONIS	77592905	68	64	0	5	5
TOTALS		552	590	8	19	27

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: COMMERCIAL ART & FINE ARTS

SCHOOL YEAR 1985-86

CLUSTER CODE GX03

PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
INTERIOR DESIGN	04.0501			3					3
FURNITURE DESIGN	142.061-022				1				1
RECORDING ENGINE	194.362-010							1	1
VISUAL & PERFORM	50.0101			47					47
CRAFTS, GENERAL	50.0201			16					16
DANCE	50.0301			4					4
DRAMATIC ARTS	50.0501			25					25
FINE ARTS, GENER	50.0701			8					8
DRAWING	50.0705			23					23
MUSIC, GENERAL	50.0901			13					13
MUSIC PERFORMANC	50.0903			1					1
MUSIC THEORY & C	50.0904			1					1
FRAMER	739.684-078				4				4
FORM MAKER, PLAS	777.684-014				1				1
DIRECTOR, TECHN	962.162-010				2				2
***TOTALS				141	8			1	150

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S   I N F O R M A T I O N  
STATEWIDE  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: COMMERCIAL ART & FINE ARTS  
CLUSTER CODE GX03

CODE	TITLE	MIL APPREN	UI RETURN	CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
141.061-018	GRAPHIC DESIGNER	0	0	0	0	0	6.05
142.061-018	CLOTHES DESIGNER	0	0	0	1	0	N.A.
194.282-010	VIDEO OPERATOR	0	0	0	0	0	6.03

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: PRINTING, GRAPHIC ARTS, & PHOTOGRAPHY

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE GX04

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
PHOTOGRAPHERS	22834023	117	125	1	3	4
PROOFREADERS & COPY MARKERS	44353911	32	33	0	1	1
DUPLICATING MACHINE OPERATO	44656005	60	64	1	2	3
PRECISION TYPESETTERS	77489702	46	43	0	2	2
PRECISION LITHOGRAPHERS	77489708	51	72	4	1	5
BOOKBINDERS	77489711	40	45	1	1	2
ALL OTHER PRECISION PRINTIN	77489799	35	37	0	1	1
PRECISION PHOTOGRAPHIC PROC	77489914	3	3	0	0	0
OFFSET LITHOGRAPHIC PRESS S	77592512	115	122	1	3	4
LETTERPRESS SETTER/OPERATOR	77592515	23	24	0	1	1
ALL OTH PRINTING PRESS SET/	77592519	7	7	0	0	0
PHOTOENGRAVING PHOTOGRAPHER	77592521	23	26	1	1	2
BINDERY MACHINE SETTER/OPER	77592525	48	56	1	2	3
TYPESETTING MACH. OPERATOR/	77592541	78	85	1	3	4
PRINTING PRESS MACHINE OPER	77592543	145	161	3	4	7
PHOTOENGRAVING MACHINE OPER	77592545	15	19	1	1	2
BINDERY MACHINE OPERATOR	77592546	58	64	1	2	3
OTHER PRINTING MACHINE OPER	77592599	9	10	0	0	0
PHOTOGRAPHIC PROCESSING MAC	77592908	52	64	2	2	4
TOTALS		957	1060	18	30	48



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: PRINTING, GRAPHIC ARTS, & PHOTOGRAPHY  
SCHOOL YEAR 1985-86

CLUSTER CODE GX04

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
PHOTOGRAPHER, MO	143.062-022					1			1
GRAPHIC ARTS	21.0106	16							16
PRESS MAINTAINER	627.281-010					1			1
CYLINDER-PRESS O	651.362-010					1			1
OFFSET-PRESE-OPE	651.482-014					1			1
PHOTOGRAPHIC EQU	714.281-022							1	1
DEVELOPER	976.681-010					3		1	3
PRINT DEVELOPER,	976.685-026					2			2
***TOTALS		16				9		2	26

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
ANALYSIS INFORMATION

STATEWIDE MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: PRINTING, GRAPHIC ARTS, & PHOTOGRAPHY CLUSTER CODE GX04

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	OPEN	AVG. HRWAGE
556.685-066	PRESS TENDER	0	0	0	1	0	N.A.
650.582-022	PHOTOTYPESETTER OPERATOR	0	0	0	0	0	7.03
651.362-010	CYLINDER-PRESS OPERATOR	1	0	0	0	0	7.73
651.362-030	WEB-PRESS OPERATOR	0	0	0	1	0	N.A.
651.380-010	PRINTER II (PRINT./PUB.)	0	0	0	0	0	8.75
651.482-010	OFFSET-PRESS OPERATOR I	0	0	0	0	0	8.45
653.382-010	FOLDING-MACHINE OPERATOR	0	0	0	1	0	N.A.
653.685-010	BINDERY WORKER	0	0	0	0	0	6.36
659.130-010	SUPERVISOR, PRINTING-SHOP	0	0	0	0	0	10.04
659.662-010	PRINTER-SLOTTER OPERATOR	0	0	0	1	0	N.A.
971.381-050	STRIPPER (PRINT./PUB.)	0	0	0	1	0	9.54
972.281-010	PROCESS ARTIST (PRINT./PUB.)	0	0	0	1	0	N.A.
972.382-014	PHOTOGRAPHER, LITHOGRAPHIC (P	0	0	0	0	0	8.10
973.381-010	COMPOSITOR (PRINT./PUB.)	0	0	0	0	0	6.98
976.487-010	PHOTOGRAPH FINISHER	0	0	0	9	0	N.A.
976.682-014	PRINTER OPERATOR, BLACK-&-WHI	0	0	0	7	0	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D    R E P O R T

STATEWIDE  
CLUSTER TITLE: MASS COMMUNICATIONS  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE GX05

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
REPORTERS & CORRESPONDENTS	22834011	208	217	2	7	9
BROADCAST NEWS ANALYSTS	22834014	59	65	1	1	2
ANNOUNCERS	22834017	438	440	0	5	5
BROADCAST TECHNICIANS	22834028	83	73	-1	1	0
TOTALS		788	795	2	14	16

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: MASS COMMUNICATIONS

SCHOOL YEAR 1985-86

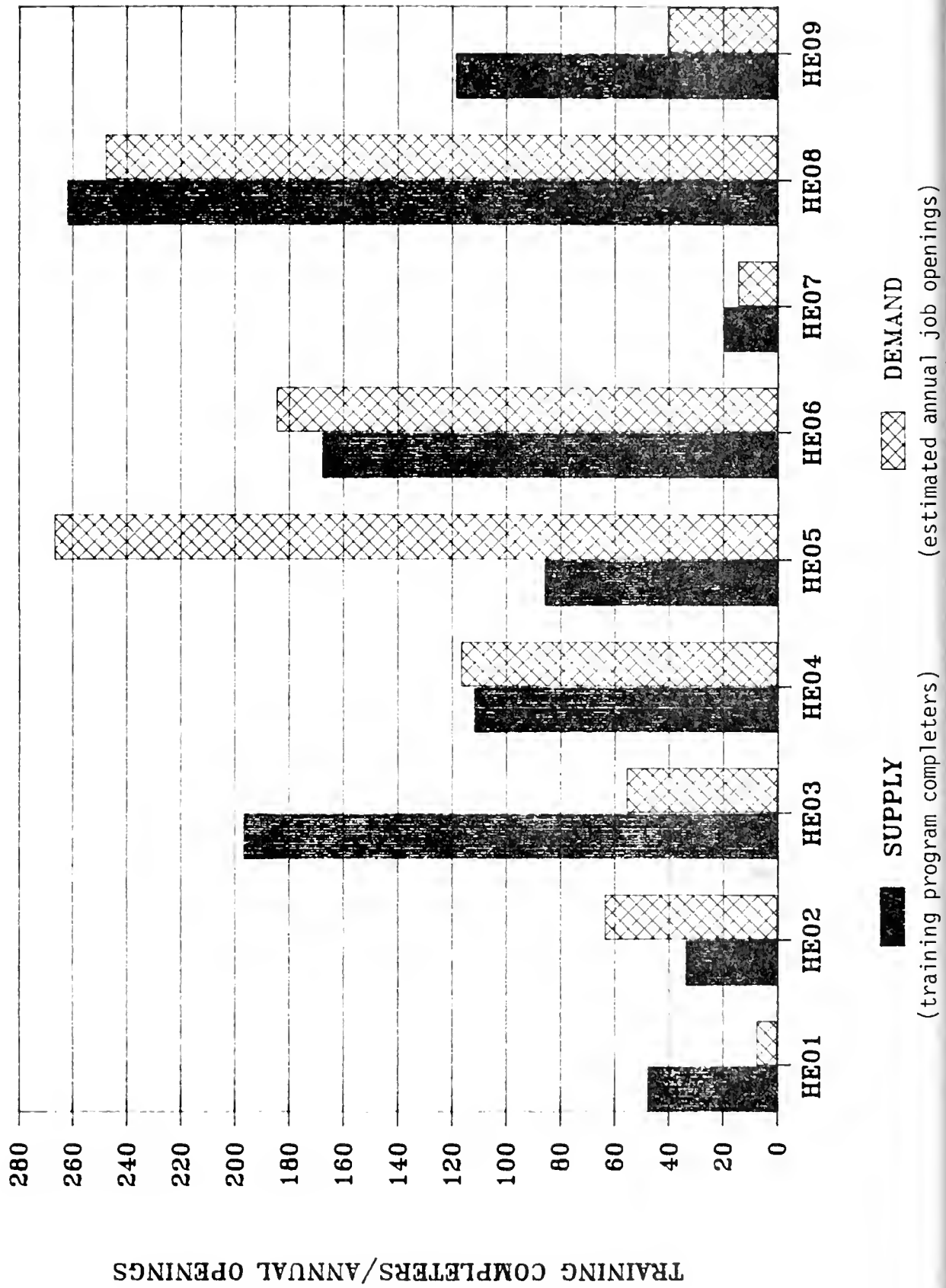
CLUSTER CODE GX05

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
COMMUNICATIONS,	09.0101			36					36
JOURNALISM (MASS	09.0401			21					21
RADIO/TELEVISION	09.0601	3							3
RADIO/TELEVISION	09.0701			16			53		69
RADIO & TV PRODU	10.0104			53					53
NEWSWRITER	131.267-014							1	1
EDITOR, NEWSPAPE	132.017-014				2				2
PHOTOJOURNALIST	143.062-034				1				1
ANNOUNCER (RADIO	159.147-010				5			2	7
***TOTALS		3		126	8		53	3	193

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S    I N F O R M A T I O N  
STATEWIDE  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: MASS COMMUNICATIONS  
CLUSTER CODE GX05

CODE	TITLE	MIL APPREN	UI RETURN	CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
003.167-030	CHIEF ENGINEER, BROADCASTING	0	0	0	0	0	14.29
131.267-010	NEWSCASTER	0	0	0	0	0	6.32
131.267-014	NEWSWRITER	0	1	0	0	0	N.A.
131.267-018	REPORTER	0	0	0	0	0	6.79
159.147-010	ANNOUNCER (RADIO & TV)	0	0	0	0	0	5.64
163.167-014	MANAGER, CITY CIRCULATION	0	0	0	6	0	9.42
184.167-014	DIRECTOR, NEWS	0	0	0	0	0	8.88

# HEALTH CLUSTERS



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D    R E P O R T

STATEWIDE

CLUSTER TITLE: MEDICAL RECORDS

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE HE01

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
MEDICAL RECORDS TECHNICIANS	22732911	125	137	2	6	8
TOTALS		125	137	2	6	8

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: MEDICAL RECORDS

SCHOOL YEAR 1985-86

CLUSTER CODE HE01

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC	JTPA	CORPS	IETARY	REHAB *****
MEDICAL SECRETAR	07.0605		33	5				35
MEDICAL RECORDS	18.0703			6				6
MEDICAL SECRETAR	201.362-014				4			4
MEDICAL-RECORD C	245.362-010				3			3
***TOTALS			33	11	7			48



10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S I N F O R M A T I O N

STATEWIDE  
CLUSTER TITLE: MEDICAL RECORDS  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE HE01

CODE	TITLE	MIL APPREN	UI RETURN	CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
201.362-014	MEDICAL SECRETARY	0	0	0	88	29	6.78
205.137-010	ADMITTING OFFICER (MEDICAL SE	0	0	0	0	0	6.12
205.362-018	HOSPITAL-ADMITTING CLERK	0	0	0	33	17	N.A.
245.362-010	MEDICAL-RECORD CLERK	0	3	0	0	0	5.93
245.362-014	WARD CLERK	0	0	0	41	6	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D    R E P O R T

STATEWIDE  
CLUSTER TITLE: DENTAL TECHNOLOGY  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE HE02

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
DENTISTS	22732105	249	287	6	5	11
DENTAL HYGIENISTS	22732908	260	301	7	10	17
DENTAL ASSISTANTS	55666002	517	595	13	20	33
PRECISION DENTAL LABORATORY	77489921	48	53	1	2	3
TOTALS		1074	1236	27	37	64

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: DENTAL TECHNOLOGY  
SCHOOL YEAR 1985-86

CLUSTER CODE HE02

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JTPA	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC		CORPS	IETARY	REHAB	*****
DENTAL ASSISTANT	079.371-010					2		1	3
DENTAL ASSISTING	17.0101		16						16
DENTAL HYGIENE	17.0102			15					15
***TOTALS			16	15	2			1	34

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S I N F O R M A T I O N

STATEWIDE

CLUSTER TITLE: DENTAL TECHNOLOGY

MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE HE02

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
072.101-010	DENTIST	0	0	0	3	0	N.A.
078.361-010	DENTAL HYGIENIST	0	0	0	12	4	12.12
079.371-010	DENTAL ASSISTANT	1	1	0	166	50	6.00

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE  
CLUSTER TITLE: MEDICAL LABORATORY  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE HE03

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED GROWTH	1984-1990> REPLAC	OPEN
BIOLOGICAL SCIENTISTS	22224308	259	273	2	6	8
MEDICAL SCIENTISTS	22224311	21	22	0	0	0
LIFE SCIENTISTS (NO DETAIL)	22224399	129	134	1	4	5
PHYS/LIFE SCI. TECHN. (NO D	22224599	506	533	5	9	14
MED./CLINICAL LAB. TECHNOLO	22732902	482	501	3	14	17
MED./CLINICAL LAB. TECHNICI	22732905	147	176	5	5	10
ELECTROENCEPHALOGRAPH TECHN	22732923	19	20	0	1	1
ELECTROCARDIOGRAPH TECHNICI	22732926	54	56	0	1	1
TOTALS		1617	1715	16	40	56

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: MEDICAL LABORATORY

SCHOOL YEAR 1985-86

CLUSTER CODE HE03

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER		JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC	JTPA	CORPS	IETARY	REHAB	*****
MEDICAL-LABORATO	078.381-010					1			1
MEDICAL-LABORATO	078.381-014					1			1
MEDICAL TECHNOLO	17.0310			9			9		18
BIOLOGY, GENERAL	26.0101			116					116
BIOCHEMISTRY & B	26.0201			2					2
MICROBIOLOGY	26.0501			59					59
***TOTALS				186	2		9		197

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S   I N F O R M A T I O N  
STATEWIDE  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: MEDICAL LABORATORY  
CLUSTER CODE HE03

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	OPEN	AVG. HRWAGE
041.061-030	BIOLOGIST	0	0	0	58	13	N.A.
078.361-014	MEDICAL TECHNOLOGIST	0	0	0	36	3	10.88
078.362-018	ELECTROCARDIOGRAPH TECHNICIAN	0	0	0	0	0	6.83
078.362-022	ELECTROENCEPHALOGRAPH TECHNIC	0	0	0	0	0	7.21
078.381-010	MEDICAL-LABORATORY ASSISTANT	0	0	0	0	0	8.01
078.381-014	MEDICAL-LABORATORY TECHNICIAN	0	1	0	33	13	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D   R E P O R T

STATEWIDE

CLUSTER TITLE: LPN & SURGICAL TECHNOLOGY

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE HE04

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
LICENSED PRACTICAL NURSES	22732505	1780	1964	31	80	111
SURGICAL TECHNICIANS	22732928	178	184	1	5	6
TOTALS		1958	2148	32	85	117



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: LPN & SURGICAL TECHNOLOGY  
SCHOOL YEAR 1985-86

CLUSTER CODE HE04

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
NURSE, LICENSED	079.374-014					2			2
SURGICAL TECHNOL	17.0211		13						13
PRACTICAL NURSIN	17.0605		96						96
NURSE, PRACTICAL	354.374-010							1	1
***TOTALS			109			2		1	112

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S I N F O R M A T I O N

STATEWIDE MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: LPN & SURGICAL TECHNOLOGY CLUSTER CODE HE04

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
079.374-014	NURSE, LICENSED PRACTICAL	0	0	0	375	81	6.80
079.374-022	SURGICAL TECHNICIAN	0	1	0	24	2	7.40
354.374-010	NURSE, PRACTICAL	0	0	0	22	6	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: MEDICAL NURSING ASSISTANCE

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE HE05

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
MEDICAL ASSISTANTS	55666005	176	206	5	7	12
NURSING AIDES, ORDERLIES	55666008	3855	4374	87	153	240
PSYCHIATRIC AIDES	55666014	311	330	3	12	15
TOTALS		4342	4910	95	172	267

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: MEDICAL NURSING ASSISTANCE

SCHOOL YEAR 1985-86

CLUSTER CODE HE05

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
MEDICAL ASSISTAN	079.367-010				1				1
NURSING ASSISTIN	17.0602		32			9			41
HOME ATTENDANT	354.377-014				3			1	4
PSYCHIATRIC AIDE	355.377-014				4				4
NURSE AIDE	355.674-014				31			2	33
ORDERLY	355.674-018				2				2
HOSPITAL ENTRANC	355.677-014				1				1
***TOTALS			32		42	9		3	86

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S   I N F O R M A T I O N  
STATEWIDE  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: MEDICAL NURSING ASSISTANCE      CLUSTER CODE HE05

CODE	TITLE	MIL APPREN	RETURN	UI CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
079.367-010	MEDICAL ASSISTANT	0	3	0	35	2	5.95
309.677-010	COMPANION	0	0	0	78	129	N.A.
355.377-014	PSYCHIATRIC AIDE	0	1	0	57	39	N.A.
355.674-014	NURSE AIDE	0	0	0	1474	467	5.52
355.674-018	ORDERLY	0	0	0	46	12	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: TREATMENT SERVICES

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE HE06

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
RESPIRATORY THERAPISTS	22732302	201	213	2	6	8
OCCUPATIONAL THERAPISTS	22732305	50	58	1	2	3
PHYSICAL THERAPISTS	22732308	115	137	4	4	8
SPEECH PATHOLOGISTS, AUDIOL	22732314	162	171	2	5	7
RECREATION THERAPISTS	22732317	87	105	3	3	6
THERAPISTS (NO DETAIL)	22732399	27	30	1	1	2
DISPENSING & MEASURING OPTI	22732514	212	248	6	7	13
PHARMACISTS	22732517	459	532	12	26	38
DIETITIANS & NUTRITIONISTS	22732521	162	179	3	7	10
DIETETIC TECHNICIANS	22732523	40	48	1	1	2
OTHER HEALTH PROFESSIONALS,	22732999	627	752	21	21	42
PHYSICAL THERAPY ASSISTANTS	55666017	128	146	3	5	8
OCCUPATIONAL THERAPY ASSIST	55666021	24	27	1	1	2
PHARMACY ASSISTANTS	55666026	73	79	1	3	4
HEALTH SERVICE WORKER (NO D	55666099	705	761	9	23	32
TOTALS		3072	3486	70	115	185

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: TREATMENT SERVICES  
SCHOOL YEAR 1985-86

CLUSTER CODE HE06

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
MEDICAL OFFICER	070.101-046					1			1
DIETITIAN, CONSU	077.127-018					1			1
ACUPUNCTURIST	079.271-010					1			1
CHIROPRACTOR ASS	079.364-010					1			1
OPTOMETRIC ASSIS	079.364-014					1			1
RESPIRATORY THER	17.0210		34						34
MENTAL HEALTH/HU	17.0405			3					3
MENTAL HEALTH/HU	17.0406			10					10
REHABILITATION C	17.0407			26					26
MENTAL HEALTH/HU	17.0499			22					22
PHYSICAL THERAPY	17.0813			16					16
SPEECH-LANGUAGE	17.0821			24					24
PHARMACY	18.1401			24					24
SOCIAL WORKER, P	195.107-034				1				1
HUMAN RELATIONS	195.267-014				1			1	2
PHYSICAL THERAPY	355.354-010				1				1
***TOTALS			34	125	8			1	168

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S I N F O R M A T I O N

STATEWIDE  
CLUSTER TITLE: TREATMENT SERVICES

MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE HE06

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
074.161-010	PHARMACIST	0	0	0	21	8	14.05
074.387-010	PHARMACY HELPER	0	0	0	0	0	5.83
076.107-010	SPEECH PATHOLOGIST	0	0	0	0	0	10.40
076.121-010	OCCUPATIONAL THERAPIST	0	0	0	2	5	N.A.
076.121-014	PHYSICAL THERAPIST	0	0	0	4	2	11.43
077.117-010	DIETITIAN, CHIEF	0	0	0	3	2	N.A.
077.121-010	DIETETIC TECHNICIAN	0	0	0	0	0	8.86
079.101-018	OPTOMETRIST	0	1	0	0	0	N.A.
079.361-010	RESPIRATORY THERAPIST	0	0	0	29	5	8.80
079.364-014	OPTOMETRIC ASSISTANT	0	0	0	0	0	6.27
355.354-010	PHYSICAL THERAPY AIDE	0	0	0	0	0	6.33
355.377-010	OCCUPATIONAL THERAPY AID	0	0	0	0	0	6.65
716.280-014	OPTICIAN (DISPENSING)	1	0	0	0	0	N.A.



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D    R E P O R T

STATEWIDE

CLUSTER TITLE: RADIOLOGIC TECHNOLOGY

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE HE07

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
NUCLEAR MED., RADIOLOGIC TE	22732914	155	163	1	5	6
RADIOLOGIC TECHNICIANS	22732921	212	226	2	7	9
TOTALS		367	389	3	12	15

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: RADIOLOGIC TECHNOLOGY

SCHOOL YEAR 1985-86

CLUSTER CODE HE07

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC	JTPA	CORPS	IETARY	REHAB *****
RADIOLOGIC TECHN	078.362-026				1			2
RADIOLOGIC (MEDI	17.0209					18		18
***TOTALS					1	18	1	20

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S    I N F O R M A T I O N

STATEWIDE  
CLUSTER TITLE: RADIOLOGIC TECHNOLOGY

MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE HE07

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
078.362-026	RADIOLOGIC TECHNOLOGIST	0	0	0	0	0	9.00

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: REGISTERED NURSE

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE HE08

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
REGISTERED NURSES	22732502	4455	4866	69	179	248
TOTALS		4455	4866	69	179	248

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: REGISTERED NURSE  
SCHOOL YEAR 1985-86

CLUSTER CODE HE08

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
NURSE, GENERAL D	075.374-010					2			2
NURSING, GENERAL	18.1101			260					260
***TOTALS				260	2				262

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
ANALYSIS INFORMATION

STATEWIDE  
CLUSTER TITLE: REGISTERED NURSE  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE HE08

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
075.117-022	DIRECTOR, NURSING SERVICE	0	0	0	0	0	11.04
075.127-018	NURSE, HEAD	0	0	0	0	0	12.57
075.127-022	NURSE, SUPERVISOR	0	0	0	0	0	12.53
075.374-010	NURSE, GENERAL DUTY (REGISTER	0	0	0	265	87	10.92
075.374-014	NURSE, OFFICE (REGISTERED)	0	0	0	0	0	9.01

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: PHYSICIAN

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE HE09

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
PSYCHOLOGISTS	22427108	218	244	4	5	9
PHYSICIANS & SURGEONS	22732102	639	711	12	9	21
OPTOMETRISTS	22732108	69	87	3	3	6
PODIATRISTS	22732111	6	8	0	0	0
PHYSICIAN'S ASSISTANTS	22732511	102	115	2	3	5
TOTALS		1034	1165	21	20	41

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: PHYSICIAN

SCHOOL YEAR 1985-86

CLUSTER CODE HE09

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC	JTPA	CORPS	IETARY	REHAB *****
PSYCHOLOGY, GENE 42.0101				119				119
***TOTALS				119				119



10/01/87

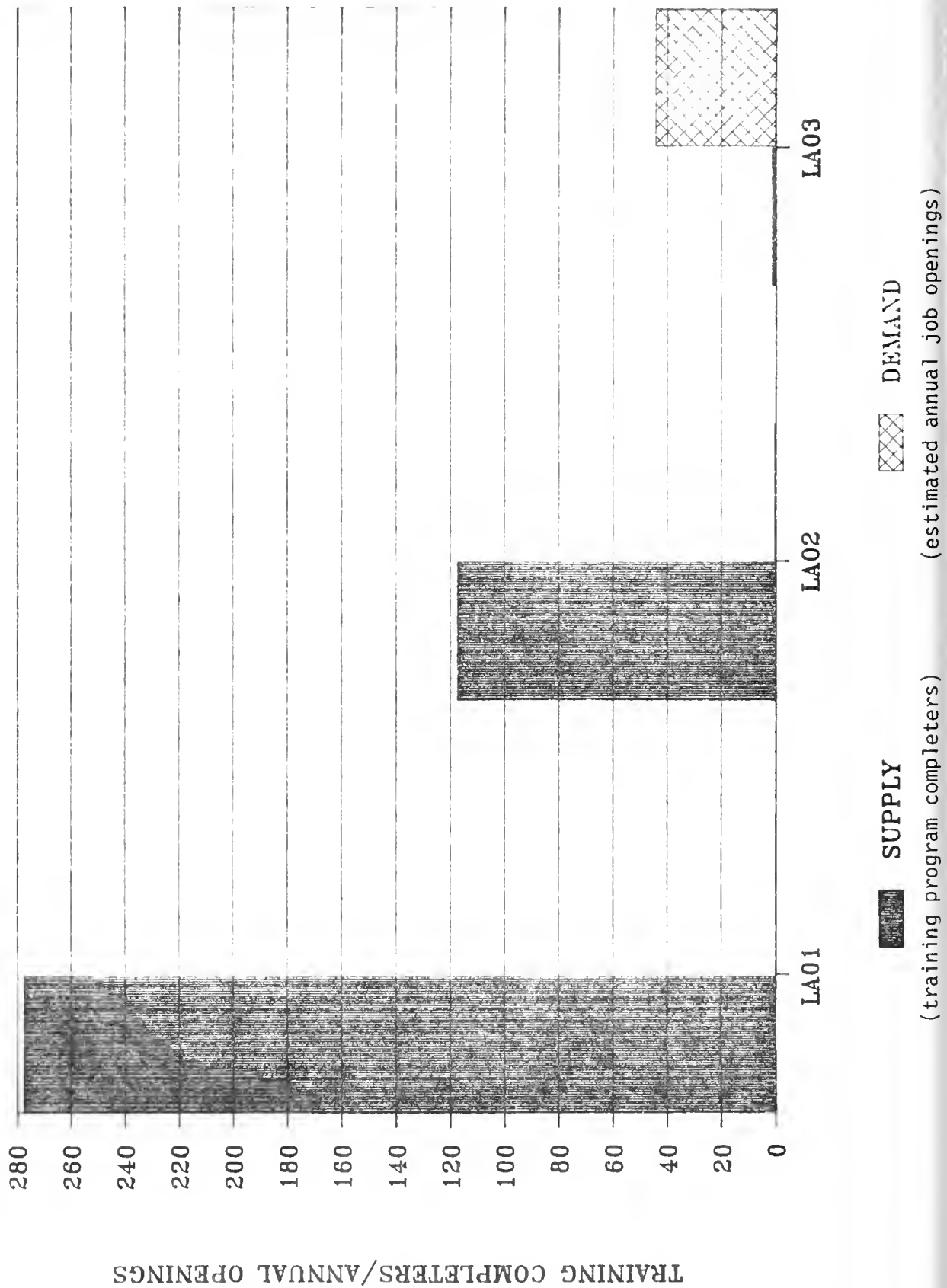
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S   I N F O R M A T I O N

STATEWIDE  
CLUSTER TITLE: PHYSICIAN

MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE HE09

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
045.107-022	PSYCHOLOGIST, CLINICAL	0	0	0	0	0	12.81
070.101-022	GENERAL PRACTITIONER	0	0	0	2	0	N.A.
070.101-042	INTERNIST	0	1	0	0	0	N.A.
070.101-062	OTOLARYNGOLOGIST	0	1	0	0	0	N.A.

# LIBERAL ARTS & LANGUAGES CLUSTERS



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: LIBERAL ARTS & FOREIGN LANGUAGES  
SCHOOL YEAR 1985-86

CLUSTER CODE LA01

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
SCIENTIFIC LINGU	059.067-014							1	1
ASTROLOGER	159.207-010							1	1
FOREIGN LANGUAGE	16.0101			9					9
GERMAN	16.0501			4					4
FRENCH	16.0901			9					9
SPANISH	16.0905			11					11
COMPARATIVE LITE	23.0301			6					6
LIBERAL/GENERAL	24.0199			230					230
PUBLIC AFFAIRS,	44.9999			7					7
***TOTALS				276				2	278

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
ANALYSIS INFORMATION

STATEWIDE MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: LIBERAL ARTS & FOREIGN LANGUAGES CLUSTER CODE LA01

CODE	TITLE	MIL APPREN	RETURN	UI CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
137.267-010	INTERPRETER	0	3	0	0	0	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D    R E P O R T

STATEWIDE

CLUSTER TITLE: HISTORY & PHILOSOPHY

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE LA02

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
CURATORS, ARCHIVISTS, MUSEU	22631511	9	15	1	0	1
TOTALS		9	15	1	0	1

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: HISTORY & PHILOSOPHY

SCHOOL YEAR 1985-86

CLUSTER CODE LA02

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC	JTPA	CORPS	IETARY	REHAB *****
AMERICAN STUDIES	05.0102			6				6
AMERICAN INDIAN	05.0202			1				1
PHILOSOPHY	38.0101			9				9
ANTHROPOLOGY	45.0201			10				10
HISTORY	45.0801			92				92
***TOTALS				118				118

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S I N F O R M A T I O N  
STATEWIDE MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: HISTORY & PHILOSOPHY CLUSTER CODE LA02

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CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
292.483-010	COIN COLLECTOR	0	0	0	5	6	N.A.

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10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D    R E P O R T

STATEWIDE

CLUSTER TITLE: LIBRARY ARTS

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE LA03

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
LIBRARIANS, PROFESSIONAL	22631502	617	614	0	26	26
TECHNICAL ASSISTANTS: LIBRA	22631505	257	264	1	5	6
LIBRARY ASSISTANTS, BOOKMOB	44353902	373	383	2	11	13
TOTALS		1247	1261	3	42	45



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: LIBRARY ARTS

SCHOOL YEAR 1985-86

CLUSTER CODE LA03

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC	JTPA	CORPS	IETARY	REHAB *****
LIBRARY ASSISTAN	249.367-046				2			2
***TOTALS					2			2

10/01/87

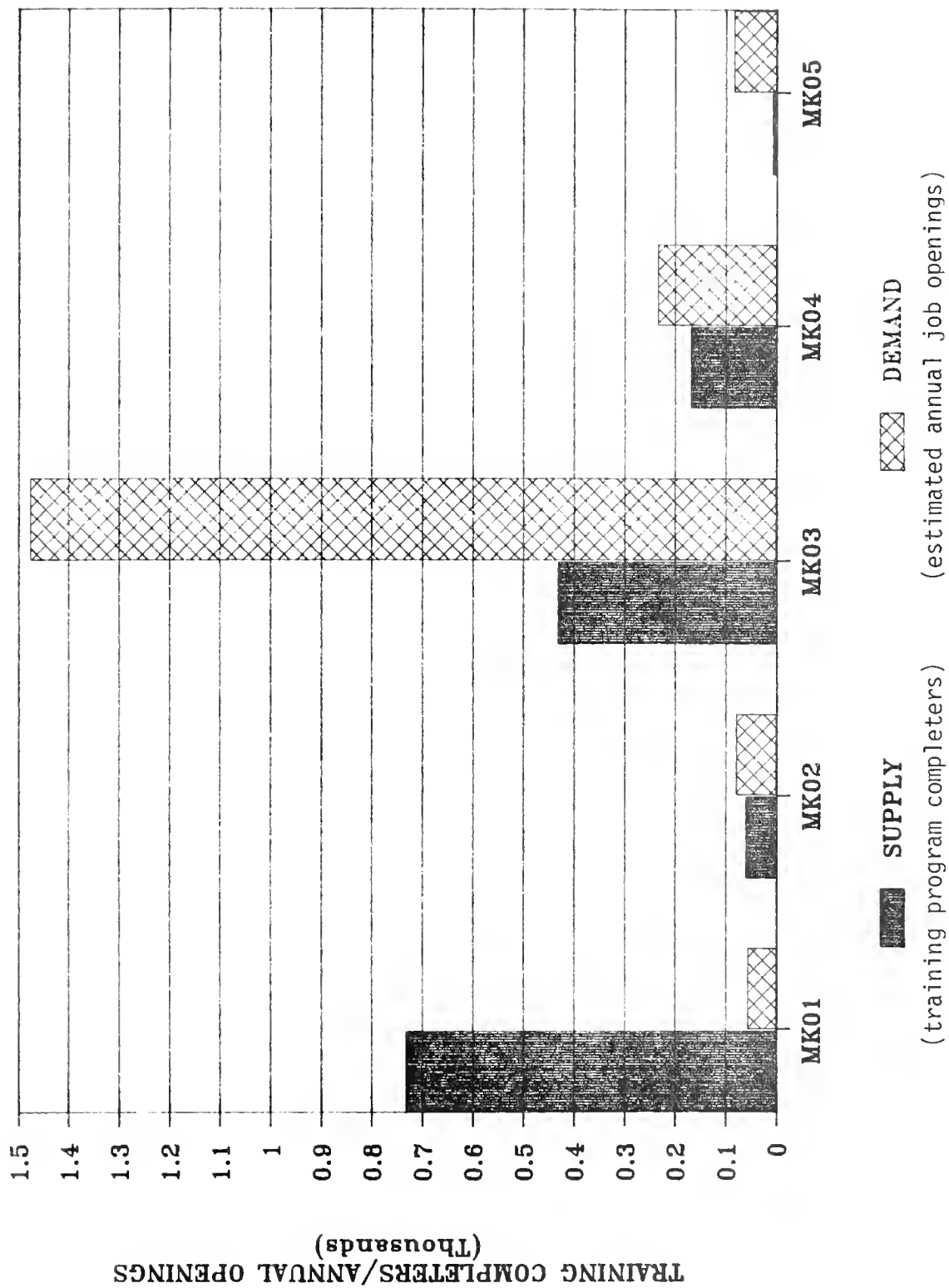
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S I N F O R M A T I O N

STATEWIDE  
CLUSTER TITLE: LIBRARY ARTS

MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE LA03

CODE	TITLE	MIL APPREN	UI RETURN	CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
100.127-014	LIBRARIAN	0	0	0	30	6	N.A.
100.167-026	LIBRARIAN, SPECIAL LIBRARY (L	0	0	0	0	0	6.74

# MARKETING CLUSTERS



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: REAL ESTATE MARKETING

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE MK01

- OCCUPATION -	CODE	1984	1990	<ESTIMATED 1984-1990>		
T I T L E		EMPLOY	EMPLOY	GROWTH	REPLAC	OPEN
PROPERTY, REAL ESTATE MANAG	11515011	2	2	0	0	0
ASSESSORS	22021917	298	309	2	24	26
TITLE EXAMINERS & CLERKS	22528306	201	210	2	6	8
BROKERS: REAL ESTATE	33343005	96	102	1	6	7
SALES AGENTS: REAL ESTATE	33343008	93	110	3	6	9
APPRAISERS: REAL ESTATE	33343011	71	75	1	4	5
REAL ESTATE CLERKS	44353914	71	81	2	3	5
TOTALS		832	889	11	49	60

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: REAL ESTATE MARKETING  
SCHOOL YEAR 1985-86

CLUSTER CODE MK01

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JTPA	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC		CORPS	IETARY	REHAB	*****
REAL ESTATE	06.1701			1			734		735
REAL-ESTATE CLER	219.362-046				1				1
***TOTALS				1	1		734		736

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S I N F O R M A T I O N

STATEWIDE  
CLUSTER TITLE: REAL ESTATE MARKETING

MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE MK01

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
119.287-010	TITLE EXAMINER	0	0	0	0	0	6.99
186.167-046	MANAGER, PROPERTY	0	0	0	0	0	11.13
209.367-046	TITLE SEARCHER (REAL ESTATE)	0	0	0	0	0	5.05
250.357-018	SALES AGENT, REAL ESTATE	0	0	0	77	0	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: MARKETING MANAGEMENT

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE MK02

- OCCUPATION -	CODE	1984	1990	<ESTIMATED 1984-1990>		
T I T L E		EMPLOY	EMPLOY	GROWTH	REPLAC	OPEN
MARKETING, ADV., PUB. REL. M	11313011	649	697	8	27	35
WHOLESALE & RETAIL BUYERS	22021302	844	900	9	36	45
ECONOMISTS, MARKET ANALYSTS	22427102	66	72	1	2	3
TOTALS		1559	1669	18	65	83

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: MARKETING MANAGEMENT

SCHOOL YEAR 1985-86

CLUSTER CODE MK02

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
MARKETING MANAGE	06.1401		15	22					37
SMALL BUSINESS M	06.1801			4					4
PURCHASING AGENT	162.157-038				2				2
MANAGER, SALES	163.167-018							2	2
MANAGER, MERCHAN	185.167-034							1	1
MANAGER, PARTS	185.167-038				1				1
MANAGER, RETAIL	185.167-046				11			2	13
CONTROLLER	186.117-014				1				1
MANAGER, DEPARTM	189.167-022				1			1	2
***TOTALS			15	26	16			6	63



10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S   I N F O R M A T I O N

STATEWIDE  
CLUSTER TITLE: MARKETING MANAGEMENT  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE MK02

CODE	TITLE	MIL APPREN	UI RETURN	CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
050.067-014	MARKET-RESEARCH ANALYST	0	0	0	0	0	15.22
185.167-046	MANAGER, RETAIL STORE	0	0	0	1094	51	9.43

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: RETAIL MARKETING & MANUFACTURING

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE MK03

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED GROWTH	1984-1990> REPLAC	OPEN
PURCHASING MANAGERS	11313008	754	808	9	25	34
INDUSTRIAL PRODUCTION MANAG	11515014	65	61	0	2	2
PURCHASING AGENTS	22021308	312	321	2	10	12
MERCHANDISE DISPLAYERS	22834044	80	96	3	3	6
SERVICE SALES OCC. (NO DETA	33343099	472	512	7	21	28
SALES PERSONS: RETAIL	33949011	11560	12789	205	495	700
COUNTER & RENTAL CLERKS	33949017	1712	1829	20	62	82
STOCK CLERKS: SALES FLOOR	33949021	2813	3040	38	48	86
SALES & RELATED OCC. (NO DE	33949999	5416	5815	67	295	362
ORDER CLERKS: MATERIALS, SE	44555323	336	377	7	13	20
PROCUREMENT CLERKS	44555326	88	89	0	2	2
PRODUCTION, EXPEDITING CLER	44858008	287	291	1	9	10
WEIGHERS, MEASURERS, CHECKE	44858017	47	50	1	2	3
STOCK CLERKS	44858023	1600	1696	16	46	62
SALES ORDER FILLERS	44858026	439	468	5	7	12
TRAFFIC, SHIPPING CLERKS	44858028	1075	1126	9	33	42
HAND PACKERS & PACKAGERS	77998902	567	558	-1	17	16
TOTALS		27623	29926	389	1090	1479

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: RETAIL MARKETING & MANUFACTURING

SCHOOL YEAR 1985-86

CLUSTER CODE MK03

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
FASHION MERCHAND	08.0102		10						10
FASHION MODELING	08.0103						71		71
RETAILING	08.0705	175	3			2			180
HOME-SERVICE DIR	096.161-010							1	1
STOCK-CONTROL CL	219.367-034				1				1
PARTS CLERK	222.367-042				6			1	7
MATERIAL CLERK	222.387-034				4			1	5
SHIPPING & RECEI	222.387-050				8				8
STOCK CLERK	222.387-058				3				3
PARTS-ORDER-&-ST	249.367-058				3				3
SALES REPRESENTA	254.357-014				3				3
SALES REP., TV C	259.357-022							1	1
SALES REPRESENTA	260.357-014				1				1
SALESPERSON, MEN	261.357-054				1				1
SALESPERSON, WOM	261.357-066				1				1
SALES-PROMOTION	269.357-018							1	1
SALESPERSON, FUR	270.357-030				1			1	2
SALESPERSON, HOU	270.357-034				1				1
SALES REPRESENTA	271.257-010				1				1
SALESPERSON, AUT	273.353-010				1			1	2
SALES REPRESENTA	275.257-010				1				1
SALES REP, OFFIC	275.357-034				1				1
SALESPERSON, SPO	277.357-058				2				2
SALES REPRESENTA	279.357-014				1				1
SALES REPRESENTA	279.357-034							1	1
SALESPERSON, FLY	279.357-046				1				1
SALESPERSON, GEN	279.357-050				1			1	2
SALESPERSON, GEN	279.357-054				14			4	18
SALESPERSON, JEW	279.357-058				1				1
SALESPERSON, PAR	279.357-062				7			1	8
SALES CLERK	290.477-014				29				29
SALES CLERK, FOO	290.477-018				1				1
DRIVER, SALES RO	292.353-010				4				4
DEMONSTRATOR (RE	297.354-010							1	1
MANAGER, DEPARTM	299.137-010				2				2
TELEPHONE SOLICI	299.357-014				1			1	2
STOCK CLERK, SEL	299.367-014				6			2	8
MACHINE OPERATOR	649.685-070							1	1
ASSEMBLER (ELEC.	723.684-010							1	1
ASSEMBLER (SPORT	732.684-014				2				2
FLY TIER (SPORTS	732.684-074							1	1
FURNITURE ASSEMB	739.684-082				1				1
PAINTER, SPRAY 1	741.684-026				1				1
FINISHER, HAND	754.684-030				1				1
EDGE BANDER, HAN	762.684-038				1				1
CROSSBAND LAYER	762.687-026				2				2
FURNITURE ASSEMB	763.684-038				13				13

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: RETAIL MARKETING & MANUFACTURING (continued)

SCHOOL YEAR 1985-86

CLUSTER CODE MK03

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC	JTPA	CORPS	IETARY	REHAB *****
PACKAGER, HAND	920.587-018				2			2
PACKAGER, MACHIN	920.685-078				14			14
BAGGER (GROCERY)	920.687-014						1	1
MATERIAL HANDLER	929.687-030				8			8
***TOTALS		175	13		152	2	71	22 435

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
ANALYSIS INFORMATION

STATEWIDE MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: RETAIL MARKETING & MANUFACTURING CLUSTER CODE MK03

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
012.167-042	MANUFACTURING ENGINEER	0	0	0	2	0	N.A.
012.167-050	PRODUCTION PLANNER	0	0	0	0	0	11.32
162.157-018	BUYER	0	0	0	0	0	9.51
162.157-038	PURCHASING AGENT	0	0	0	94	9	9.89
163.167-018	MANAGER, SALES	0	0	0	154	6	13.46
181.117-010	MANAGER, BULK PLANT	0	1	0	0	0	N.A.
183.117-014	PRODUCTION SUPERINTENDENT	0	0	0	0	0	15.49
183.167-018	GENERAL SUPERVISOR	0	0	0	0	0	14.48
184.167-094	MANAGER, TRAFFIC (ANY IND.)	0	0	0	0	0	11.10
184.167-114	MANAGER, WAREHOUSE	0	0	0	0	0	12.32
185.167-034	MANAGER, MERCHANDISE	0	0	0	0	0	9.82
185.167-038	MANAGER, PARTS	0	0	0	0	0	9.42
205.367-054	SURVEY WORKER (INTERVIEWER)	0	0	0	18	44	5.28
221.367-042	MATERIAL EXPEDITER (CLERICAL)	0	0	0	4	0	N.A.
222.367-042	PARTS CLERK	0	3	0	0	0	N.A.
222.387-050	SHIPPING & RECEIVING CLERK	0	1	0	0	0	6.19
222.387-058	STOCK CLERK	0	3	0	505	197	5.99
222.387-062	STOREKEEPER	0	4	0	0	0	N.A.
254.357-014	SALES REPRESENTATIVE, ADVERTI	0	0	0	68	66	6.05
261.357-050	SALESPERSON, MEN'S & BOYS CLO	0	0	0	20	8	N.A.
261.357-054	SALESPERSON, MEN'S FURNISHING	0	0	0	8	0	N.A.
261.357-062	SALESPERSON, SHOES	0	0	0	37	24	N.A.
261.357-066	SALESPERSON, WOMEN'S APPAREL	0	0	0	101	93	N.A.
273.353-010	SALESPERSON, AUTOMOBILES	0	0	0	140	26	N.A.
273.357-022	SALES REP, MOTOR VEHICLES & S	0	0	0	15	5	N.A.
274.357-022	SALES REP, CONSTRUCTION MACHI	0	0	0	6	2	N.A.
275.257-010	SALES REPRESENTATIVE, COMPUTE	0	0	0	0	0	8.59
275.357-034	SALES REP, OFFICE MACHINES	0	0	0	23	11	N.A.
277.357-034	SALESPERSON, BOOKS	0	0	0	18	4	N.A.
279.357-014	SALES REPRESENTATIVE, GENERAL	0	0	0	0	0	8.63
279.357-050	SALESPERSON, GENERAL HARDWARE	0	0	0	93	56	6.00
279.357-054	SALESPERSON, GENERAL MERCHAND	0	0	0	604	215	5.14
279.357-062	SALESPERSON, PARTS	2	0	0	147	44	7.10
290.477-014	SALES CLERK	0	2	0	2582	1025	4.67
290.477-018	SALES CLERK, FOOD	0	0	0	168	108	4.32
292.353-010	DRIVER, SALES ROUTE	0	0	0	277	115	7.09
299.137-010	MANAGER, DEPARTMENT	0	0	0	71	5	3.81
299.357-014	TELEPHONE SOLICITOR	0	0	0	156	419	5.71
299.367-014	STOCK CLERK, SELF-SERVICE STO	0	0	0	0	0	5.74
299.477-010	DELIVERER, MERCHANDISE	0	0	0	0	0	4.66
534.662-010	BACK TENDER, PAPER MACHINE	0	0	0	33	6	N.A.
559.567-010	LABORER, GENERAL	0	0	0	2	0	N.A.
649.380-010	MACHINE SET-UP OPERATOR, PAPE	0	0	0	2	0	N.A.
649.687-010	PAPER SORTER & COUNTER	0	0	0	1	0	N.A.
706.687-010	ASSEMBLER, PRODUCTION	0	0	0	0	0	8.08
712.687-010	ASSEMBLER, HOSPITAL SERVICE	0	0	0	1	0	N.A.
723.684-014	ASSEMBLER I (LIGHT FIXTURES)	0	0	0	1	0	N.A.
726.684-010	CAPACITOR-PACK-PRESS OPERATOR	0	0	0	6	0	N.A.

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S I N F O R M A T I O N

STATEWIDE MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: RETAIL MARKETING & MANUFACTURING (continued) CLUSTER CODE MK03

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
737.587-014	FIREWORKS ASSEMBLER	0	0	0	1	9	N.A.
739.687-030	ASSEMBLER, SMALL PRODUCTS	0	0	0	1	0	N.A.
741.684-026	PAINTER, SPRAY 1	0	0	0	11	16	8.45
741.687-018	PAINTER, SPRAY INSPECTOR	0	0	0	4	1	N.A.
750.685-014	TIRE RECAPPER	0	0	0	0	0	7.19
754.687-010	LABORER, GENERAL (FABRIC/PLAS	0	0	0	2	0	N.A.
827.684-010	APPLIANCE ASSEMBLER, LINE	0	0	0	1	0	N.A.
920.587-018	PACKAGER, HAND	0	0	0	148	114	7.26
920.685-078	PACKAGER, MACHINE	0	0	0	14	23	N.A.
920.687-014	BAGGER (GROCERY)	0	0	0	300	273	3.63
922.687-058	LABORER, STORES	0	0	0	0	0	7.28
929.687-030	MATERIAL HANDLER	0	0	0	2393	9036	7.84

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: RECREATION & TOURISM

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE MK04

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
FOOD SERVICE & LODGING MANA	11515026	1231	1386	26	49	75
RECREATION WORKERS	22427311	270	306	6	8	14
ATHLETE, COACH, UMPIRE & RE	22834058	98	101	1	3	4
TRAVEL AGENTS	33343021	270	354	14	13	27
TRAVEL CLERKS	44353802	40	43	1	2	3
RESERVATION TICKET AGENTS	44353805	303	389	14	9	23
HOTEL DESK CLERKS	44353808	775	814	7	34	41
AMUSEMENT & RECREATION ATTE	55868014	478	601	21	21	42
GUIDES	55868017	25	35	2	2	4
USHERS & TICKET TAKERS	55868021	104	96	0	2	2
BAGGAGE PORTERS & BELLHOPS	55868023	90	89	0	3	3
TOTALS		3684	4214	92	146	238

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: RECREATION & TOURISM  
SCHOOL YEAR 1985-86

CLUSTER CODE MK04

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
JOCKEY	153.244-010							1	1
RECREATION SUPER	187.137-010				1				1
RECREATION LEADE	195.227-014				1				1
HOTEL CLERK (MOT	238.362-010				4			1	5
RESERVATION CLER	238.362-014							1	1
RESERVATIONS AGE	238.367-018				1				1
TICKET AGENT	238.367-026				2				2
TRAVEL AGENT	252.157-010				2			1	3
TRAFFIC AGENT	252.257-010				2				2
OUTDOOR RECREATI	31.0201						130		130
PARKS & RECREATI	31.0301			19					19
MASSEUR/MASSEUSE	334.374-010				1			1	2
GAME ATTENDANT	342.457-010				2				2
TICKET TAKER	344.667-010				1				1
GUIDE, ESTABLISH	353.367-014				1				1
***TOTALS				19	18		130	5	172



10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
ANALYSIS INFORMATION

STATEWIDE  
CLUSTER TITLE: RECREATION & TOURISM

MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE MK04

CODE	TITLE	MIL APPREN	UI RETURN	CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
012.261-014	QUALITY-CONTROL TECHNICIAN	0	0	0	0	0	11.51
187.117-038	MANAGER, HOTEL OR MOTEL	0	0	0	0	0	4.29
187.117-042	MANAGER, RECREATION ESTABLISH	0	0	0	0	0	7.45
187.137-010	RECREATION SUPERVISOR	0	0	0	0	0	5.85
187.167-114	MANAGER, GOLF CLUB	0	0	0	0	0	6.62
187.167-154	MANAGER, THEATER	0	0	0	16	2	N.A.
238.362-010	HOTEL CLERK (MOTEL)	0	2	0	385	219	4.27
238.367-026	TICKET AGENT	0	0	0	27	12	N.A.
252.157-010	TRAVEL AGENT	0	0	0	0	0	5.55
320.137-014	MANAGER, LODGING FACILITIES	0	0	0	0	0	7.26
324.677-010	BELLHOP	0	0	0	0	0	3.29
329.467-010	ATTENDANT, LODGING FACILITIES	0	0	0	0	0	3.50
340.367-010	DESK CLERK, BOWLING FLOOR	0	0	0	0	0	4.58
341.367-010	RECREATION-FACILITY ATTENDANT	0	0	0	0	0	3.86
344.667-010	TICKET TAKER	0	0	0	0	0	3.78
406.137-010	GREENSKEEPER I	0	0	0	0	0	13.73
406.683-010	GREENSKEEPER II	0	0	0	0	0	5.58
732.364-014	SKI BINDING FITTER & REPAIRER	0	0	0	0	0	4.55
732.684-122	SPORTS-EQUIPMENT REPAIRER	0	0	0	0	0	5.25

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D   R E P O R T

STATEWIDE

CLUSTER TITLE: INSURANCE

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE MK05

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
UNDERWRITERS	22021102	168	175	1	7	8
SPECIAL AGENTS, INSURANCE	22021505	132	139	1	5	6
CLAIMS EXAMINERS: INSURANCE	22021921	41	39	0	1	1
ACTUARIES	22325313	18	18	0	0	0
SALES AGENTS: INSURANCE	33343002	724	781	10	25	35
INSURANCE ADJUSTERS/INVESTI	44353302	228	246	3	7	10
INSURANCE APPRAISERS: AUTO	44353305	4	5	0	0	0
INSURANCE EXAMINING CLERKS	44353308	9	9	0	0	0
INSURANCE CLAIMS CLERKS	44353311	131	142	2	5	7
INSURANCE POLICY PROCESS. C	44353314	366	404	6	14	20
TOTALS		1821	1958	23	64	87

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: INSURANCE  
SCHOOL YEAR 1985-86

CLUSTER CODE MK05

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
UNDERWRITER	169.167-058					1			1
POLICY-CHANGE CL	219.362-042					1			1
UNDERWRITING CLE	219.367-038					1			1
INSURANCE CLERK	219.387-014					1		1	2
SALES AGENT, INS	250.257-010					2		3	5
***TOTALS						6		4	10

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
ANALYSIS INFORMATION

STATEWIDE  
CLUSTER TITLE: INSURANCE

MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE MK05

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
166.167-046	SPECIAL AGENT (INSURANCE)	0	0	0	0	0	13.21
169.167-058	UNDERWRITER	0	0	0	28	2	7.36
205.367-018	CLAIMS CLERK II (INSURANCE)	0	0	0	0	0	7.53
214.362-022	INSURANCE CLERK	0	0	0	20	6	6.71
214.482-022	RATER (INSURANCE)	0	0	0	16	0	5.58
219.362-042	POLICY-CHANGE CLERK	0	0	0	0	0	4.94
219.367-038	UNDERWRITING CLERK	0	0	0	0	0	6.02
241.217-010	CLAIM ADJUSTER	0	0	0	38	6	11.66
241.267-018	CLAIM EXAMINER	0	0	0	0	0	11.61
241.362-010	CLAIMS CLERK I (INSURANCE)	0	0	0	0	0	7.23
250.257-010	SALES AGENT, INSURANCE	0	0	0	112	34	7.45

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: FINANCES

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE MK06

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
FINANCIAL MANAGERS	11313002	2221	2368	25	73	98
FINANCIAL SPECIALISTS (NO D	22021190	178	186	1	6	7
SALES AGENTS: FINANCIAL SER	33343014	332	411	13	15	28
SALES AGENTS: BUSINESS SERV	33343017	218	230	2	7	9
TELLERS	44353102	1551	1562	2	48	50
NEW ACCOUNTS CLERKS	44353105	297	296	0	9	9
TOTALS		4797	5053	43	158	201

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: FINANCES  
SCHOOL YEAR 1985-86

CLUSTER CODE MK06

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JTPA	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC		CORPS	IETARY	REHAB	*****
FINANCIAL ANALYS	020.167-014							1	1
ECONOMIST	050.067-010							1	1
BANKING & FINANC	06.0301			80					80
BUSINESS ECONOMI	06.0501			6					6
BUSINESS-OPPORTU	189.157-010				1			1	2
FOREIGN BANKNOTE	211.362-014				5				5
TELLER	211.362-018				4				4
PROOF-MACHINE OP	217.382-010				1				1
ECONOMICS	45.0601			28					28
***TOTALS				114	11			3	128

10/01/87

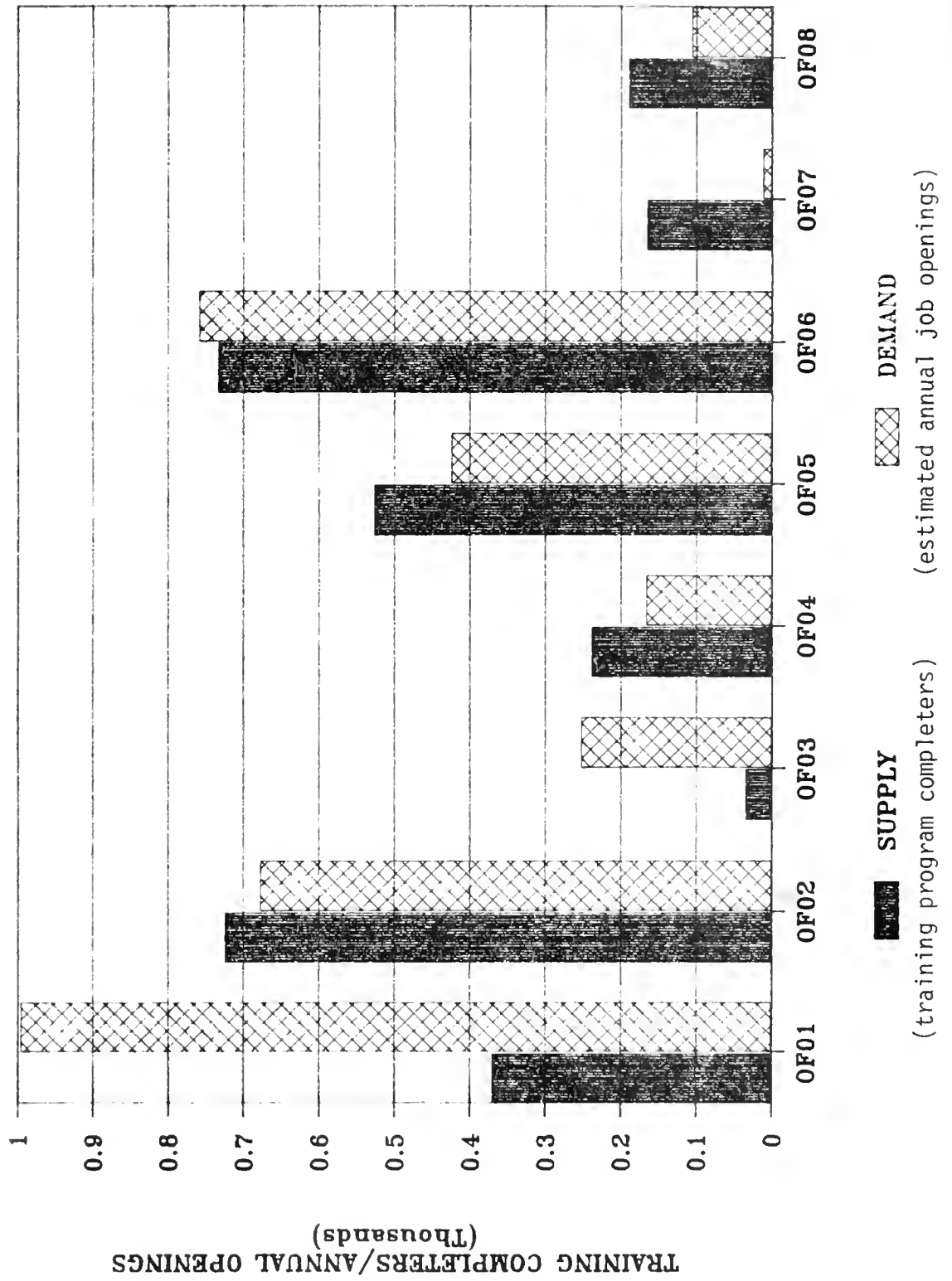
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
ANALYSIS INFORMATION

STATEWIDE  
CLUSTER TITLE: FINANCES

MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE MK06

CODE	TITLE	MIL APPREN	UI RETURN	CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
020.167-014	FINANCIAL ANALYST	0	0	0	0	0	18.62
186.117-014	CONTROLLER	0	0	0	0	0	17.13
186.117-038	MANAGER, FINANCIAL INSTITUTIO	0	0	0	0	0	16.10
186.117-074	TRUST ADMINISTRATOR (FINAN. I	0	0	0	0	0	15.65
186.267-018	LOAN OFFICER	0	0	0	0	0	12.62
211.362-018	TELLER	0	0	0	333	100	5.42
219.132-014	SUPERVISOR, TRUST ACCOUNTS	0	0	0	0	0	9.43
251.357-014	SALES AGENT, FINANCIAL REPORT	0	0	0	1	6	N.A.

# OFFICE CLUSTERS





10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: BOOKKEEPING & ACCOUNTING

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE 0F01

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
TAX PREPARERS	22021111	196	274	13	8	21
ACCOUNTANTS & AUDITORS	22021114	2507	2696	32	87	119
TAX EXAMINERS & COLLECTORS	22021914	167	171	1	6	7
CASHIERS	33949023	6435	7513	180	243	423
STATEMENT CLERKS	44353126	169	172	1	6	7
BILL & ACCOUNT COLLECTORS	44353508	247	255	1	9	10
STATISTICAL CLERKS	44555328	107	103	0	4	4
BOOKKEEPING & ACCOUNTING CL	44555338	7323	7737	69	279	348
BILLING, COST % RATE CLERKS	44555344	1071	1119	8	37	45
CALCULATING MACHINE OPERATO	44656002	372	379	1	12	13
TOTALS		18594	20419	306	691	997

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: BOOKKEEPING & ACCOUNTING

SCHOOL YEAR 1985-86

CLUSTER CODE OF01

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JTPA	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC		CORPS	IETARY	REHAB	*****
ACCOUNTING	06.0201			160					160
TAXATION	06.1901						83		83
ACCOUNTING,BOOKK	07.0101		61						61
ACCOUNTANT, TAX	160.162-010				1			2	3
ACCOUNTANT	160.167-010				2			2	4
ESTIMATOR	160.267-018				2				2
ACCOUNT EXECUTIV	164.167-010							1	1
BOOKKEEPER 1	210.382-014				13			5	18
BOOKKEEPER 2	210.382-018				9			1	10
BOOKKEEPING-MACH	210.382-026				1				1
CASHIER I (CLERI	211.362-010				2				2
CASHIER II	211.462-010				6			3	9
CASHIER CHECKER	211.462-014				15				15
ACCOUNTING CLERK	216.382-010				1				1
STATISTICAL CLER	216.382-062				2				2
***TOTALS			61	160	54		83	14	372

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
ANALYSIS INFORMATION

STATEWIDE  
CLUSTER TITLE: BOOKKEEPING & ACCOUNTING  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE OF01

CODE	TITLE	MIL APPREN	UI RETURN	CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
160.162-014	AUDITOR	0	0	0	41	10	11.76
160.167-010	ACCOUNTANT	0	0	0	340	42	11.18
160.167-018	ACCOUNTANT, COST	0	0	0	0	0	11.03
160.167-034	INTERNAL AUDITOR	0	0	0	0	0	10.88
160.267-018	ESTIMATOR	0	0	0	36	3	5.99
191.267-014	CREDIT ANALYST	0	0	0	4	0	10.25
209.687-010	CHECKER II (CLERICAL)	0	0	0	41	16	N.A.
210.382-010	AUDIT CLERK	0	0	0	66	20	N.A.
210.382-014	BOOKKEEPER I	0	0	0	1181	292	6.62
210.382-018	BOOKKEEPER 2	0	0	0	621	130	N.A.
210.382-022	BOOKKEEPING-MACHINE OPERATOR	0	0	0	8	3	4.45
211.362-010	CASHIER I (CLERICAL)	0	0	0	362	110	4.28
211.462-010	CASHIER II	0	0	0	1630	498	N.A.
215.482-010	PAYROLL CLERK	0	0	0	58	10	7.44
216.382-034	COST CLERK	0	1	0	9	0	N.A.
216.382-062	STATISTICAL CLERK	0	0	0	0	0	9.91
216.482-010	ACCOUNTING CLERK	0	3	0	262	80	6.38

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: CLERICAL OFFICE PRACTICE

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE OF02

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
COST ESTIMATORS	22021902	294	285	-1	10	9
TRANSIT CLERKS	44353108	86	82	0	3	3
CREDIT AUTHORIZERS	44353114	17	19	0	1	1
CREDIT CHECKERS	44353117	85	90	1	3	4
LOAN & CREDIT CLERKS	44353121	546	577	5	20	25
ADJUSTMENT CLERKS	44353123	261	260	0	9	9
BROKERAGE CLERKS	44353128	28	33	1	1	2
COURT CLERKS	44353702	267	273	1	10	11
MUNICIPAL CLERKS	44353705	163	167	1	7	8
LICENSE CLERKS	44353708	83	85	0	3	3
TYPISTS	44555307	1686	1759	12	55	67
FILE CLERKS	44555321	390	424	6	15	21
PAYROLL & TIMEKEEPING CLERK	44555341	596	620	4	22	26
GENERAL OFFICE CLERKS	44555347	6340	6494	26	229	255
OFFICE MACH. OPERATOR (NO D	44656099	164	173	2	6	8
MAIL CLERKS, EXC. MAIL MACH	44757302	205	208	1	8	9
POSTAL SERVICE CLERKS	44757308	1265	1257	0	34	34
CLERICAL & SUPPORT (NO DETA	44959999	4042	4230	31	153	184
TOTALS		16518	17036	90	589	679

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: CLERICAL OFFICE PRACTICE

SCHOOL YEAR 1985-86

CLUSTER CODE 0F02

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
TYPING, GENERAL	07.0701	581				31			612
CLERK-TYPIST	07.0702		19	11					30
GENERAL OFFICE C	07.0705			6					6
ADMINISTRATIVE A	169.167-010				4				4
CLERK-TYPIST	203.362-010				6			1	7
FILE CLERK I	206.362-010				2			1	3
FILE CLERK 2	206.367-014				1			1	2
CLASSIFICATION C	206.387-010				1				1
TRAFFIC CLERK	209.382-022				1				1
CODING CLERK	209.387-010				2				2
COMPILER	209.387-014				1			1	2
CLERK GENERAL	209.562-010				12			1	13
BILLING TYPIST	214.382-014				1				1
POSTING CLERK (T	216.587-014							1	1
ADMINISTRATIVE C	219.362-010				35			2	37
ATTENDANCE CLERK	219.362-014				1				1
SALES CORRESPOND	221.367-062				1				1
PRODUCTION CLERK	221.382-018				1				1
OFFICE HELPER	239.567-010				1				1
***TOTALS		581	19	17	70	31		8	726

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
ANALYSIS INFORMATION

STATEWIDE MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: CLERICAL OFFICE PRACTICE CLUSTER CODE 0F02

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	OPEN	AVG. HRWAGE
169.167-010	ADMINISTRATIVE ASSISTANT	0	0	0	440	161	11.56
203.362-010	CLERK-TYPIST	0	2	0	514	289	5.87
203.362-022	WORD PROCESSOR	0	0	0	0	0	6.58
203.582-018	CRYPTOGRAPHIC-MACHINE OPERATOR	0	2	0	0	0	N.A.
203.582-058	TRANSCRIBING-MACHINE OPERATOR	0	0	0	0	0	6.11
203.582-062	TYPESETTER-PERFORATOR OPERATOR	0	0	0	9	0	N.A.
203.582-066	TYPIST	0	0	0	50	76	N.A.
205.362-026	NEW-ACCOUNTS CLERK	0	0	0	0	0	6.87
205.367-022	CREDIT CLERK	0	0	0	0	0	7.24
206.362-010	FILE CLERK 1	0	0	0	78	62	4.91
206.367-014	FILE CLERK 2	0	0	0	13	5	N.A.
208.462-010	MAILING-MACHINE OPERATOR	0	0	0	4	0	N.A.
209.387-010	CODING CLERK	0	0	0	3	5	5.03
209.562-010	CLERK GENERAL	0	0	0	2179	1253	5.93
209.687-014	MAIL HANDLER	0	0	0	12	4	N.A.
209.687-022	SORTER	0	0	0	2	2	N.A.
211.462-014	CASHIER CHECKER	0	0	0	0	0	4.75
214.382-014	BILLING TYPIST	0	0	0	11	4	7.10
214.482-010	BILLING-MACHINE OPERATOR	0	0	0	0	0	5.71
216.362-014	COLLECTION CLERK (FINAN. INST)	0	0	0	0	0	6.69
217.382-010	PROOF-MACHINE OPERATOR	0	0	0	42	20	5.36
219.362-010	ADMINISTRATIVE CLERK	0	10	0	1698	747	5.23
219.367-034	STOCK-CONTROL CLERK	0	3	0	0	0	N.A.
221.362-010	AIRCRAFT-LOG CLERK	0	1	0	0	0	N.A.
221.367-038	MAINTENANCE DATA ANALYST	0	2	0	0	0	N.A.
221.367-066	SCHEDULER, MAINTENANCE	0	1	0	0	0	N.A.
221.367-070	SERVICE CLERK	0	0	0	0	0	5.98
221.382-018	PRODUCTION CLERK	0	0	0	0	0	7.34
222.367-038	MAGAZINE KEEPER	0	3	0	0	0	N.A.
222.387-026	INVENTORY CLERK	0	0	0	0	0	6.68
239.567-010	OFFICE HELPER	0	0	0	0	0	5.96
241.267-030	INVESTIGATOR (CLERICAL)	0	0	0	0	0	4.97
249.367-054	ORDER CLERK (CLERICAL)	0	0	0	0	0	6.60
249.382-010	MORTGAGE CLERK (FINAN. INST.)	0	0	0	0	0	6.66
920.687-126	MARKER II	0	0	0	2	1	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: COMMUNICATIONS

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE OF03

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
RECEPTIONISTS, INFORMATION	44555305	1994	2371	63	83	146
UTILITIES CUSTOMER SERVICE	44555325	250	254	0	8	8
SWITCHBOARD OPERATORS	44757102	624	673	8	26	34
DIRECTORY ASSISTANCE OPERAT	44757105	31	28	0	1	1
CENTRAL OFFICE OPERATORS	44757108	205	173	-4	7	3
TELEGRAPH & TELETYPE OPERAT	44757111	46	40	0	2	2
POSTAL MAIL CARRIERS	44757305	1451	1509	10	33	43
MESSENGERS	44757311	55	55	0	4	4
DISPATCHERS, OTHER	44858005	318	337	3	10	13
TOTALS		4980	5440	80	174	254

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: COMMUNICATIONS  
SCHOOL YEAR 1985-86

CLUSTER CODE 0F03

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JTPA	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC		CORPS	IETARY	REHAB	*****
RECEPTIONIST & C	07.0707		7						7
REHABILITATION C	205.367-046				1				1
MAIL CLERK	209.587-026				1				1
MAIL HANDLER	209.687-014							1	1
CENTRAL-OFFICE O	235.462-010							1	1
TELEPHONE OPERAT	235.662-022				1				1
INFORMATION CLER	237.367-022				1				1
RECEPTIONIST	237.367-038				17			1	18
COLLECTION CLERK	241.357-010				1				1
POST-OFFICE CLER	243.367-014							2	2
FILM-RENTAL CLER	295.367-018				1				1
CUSTOMER-SERVICE	299.367-010				1				1
***TOTALS			7		24			5	36



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S    I N F O R M A T I O N  
STATEWIDE  
CLUSTER TITLE: COMMUNICATIONS  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE OF03

CODE	TITLE	MIL APPREN	RETURN	UI CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
193.262-022	RADIO OFFICER	0	1	0	0	0	N.A.
193.262-030	RADIOTELEGRAPH OPERATOR	0	1	0	0	0	N.A.
193.262-034	RADIOTELEPHONE OPERATOR	0	10	0	0	0	N.A.
209.587-026	MAIL CLERK	0	0	0	68	150	5.45
235.462-010	CENTRAL-OFFICE OPERATOR	0	0	0	44	12	N.A.
235.662-022	TELEPHONE OPERATOR	0	0	0	142	64	8.12
235.662-026	TELEPHONE-ANSWERING SERVICE 0	0	0	0	4	12	N.A.
237.367-010	APPOINTMENT CLERK	0	0	0	7	11	N.A.
237.367-022	INFORMATION CLERK	0	0	0	7	9	N.A.
237.367-038	RECEPTIONIST	0	0	0	1228	392	5.28
239.367-010	CUSTOMER-SERVICE REPRESENTATI	0	0	0	0	0	6.08
241.357-010	COLLECTION CLERK	0	0	0	23	21	N.A.
247.367-010	CLASSIFIED-AD CLERK	0	0	0	4	0	N.A.
249.167-014	DISPATCHER, MOTOR VEHICLE	0	0	0	25	6	7.80
299.367-010	CUSTOMER-SERVICE CLERK	0	0	0	0	0	7.07
912.367-014	TRANSPORTATION AGENT	0	0	0	5	0	N.A.
952.362-038	SWITCHBOARD OPERATOR	0	0	0	4	1	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: PERSONNEL, LABOR RELATIONS, & LAW

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE 0F04

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
PERSONNEL, TRAINING, LABOR	11313005	191	205	2	6	8
CLAIMS TAKERS, UNEMPLOY. BE	22021502	99	103	1	3	4
EMPLOYMENT INTERVIEWERS	22021508	177	243	11	5	16
PERSONNEL, LABOR REL. SPECI	22021511	580	594	2	17	19
COMPLIANCE OFFICERS & INSPE	22021911	371	384	2	13	15
JUDGES, MAGISTRATES, ADJUDI	22528101	241	248	1	8	9
LAWYERS	22528108	916	1018	17	48	65
LAW CLERKS	22528302	96	102	1	5	6
PARALEGAL PERSONNEL	22528305	143	187	7	8	15
LEGAL OCCUPATIONS (NO DETAI	22528399	21	21	0	1	1
PERSONNEL CLERKS, EXCEPT PA	44555314	224	228	1	9	10
TOTALS		3059	3333	45	123	168

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: PERSONNEL, LABOR RELATIONS, & LAW

SCHOOL YEAR 1985-86

CLUSTER CODE OF04

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
HUMAN RESOURCES	06.0601			13					13
LEGAL SECRETARIA	07.0604		28	8					36
PARALEGAL ASSIST	119.267-026				2			1	3
MANAGER, BENEFIT	166.167-018							1	1
EMPLOYMENT INTER	166.267-010				1				1
INVESTIGATOR	168.267-062							1	1
BUSINESS REP., L	187.167-018				2				2
LEGAL SECRETARY	201.362-010				8				8
LAW	22.0101			66					66
LEGAL ASSISTING	22.0103			23					23
INTERNATIONAL RE	45.0901			4					4
POLITICAL SCIENC	45.1001			82					82
***TOTALS			28	196	13			3	240

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
ANALYSIS INFORMATION

STATEWIDE MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: PERSONNEL, LABOR RELATIONS, & LAW CLUSTER CODE OF04

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	OPEN	AVG. HRWAGE
110.107-010	LAWYER	0	0	0	58	34	12.20
111.107-010	JUDGE	0	1	0	0	0	N.A.
119.267-026	PARALEGAL ASSISTANT	0	0	0	0	0	8.69
166.117-018	MANAGER, PERSONNEL	0	1	0	0	0	N.A.
166.267-018	JOB ANALYST	0	0	0	5	0	N.A.
168.167-014	EQUAL-OPPORTUNITY REPRESENTAT	0	1	0	0	0	N.A.
201.362-010	LEGAL SECRETARY	0	0	0	244	158	7.39
205.362-014	EMPLOYMENT CLERK	0	1	0	26	23	N.A.
209.362-026	PERSONNEL CLERK	0	6	0	0	0	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE  
CLUSTER TITLE: SECRETARIAL OFFICE PRACTICE  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE 0F05

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
SECRETARIES	44555101	7933	8858	154	266	420
STENOGRAPHERS	44555302	324	283	-6	12	6
TOTALS		8257	9141	148	278	426

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: SECRETARIAL OFFICE PRACTICE

SCHOOL YEAR 1985-86

CLUSTER CODE 0F05

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
SECRETARIAL & RE	07.0601	454		29					483
SECRETARIAL	07.0606		4	4					8
STENOGRAPHIC	07.0607			2					2
SECRETARIAL & RE	07.0699		6						6
ADMINISTRATIVE S	169.167-014				1				1
SECRETARY	201.362-030				24			3	27
STENOGRAPHER	202.362-014							1	1
***TOTALS		454	10	35	25			4	528

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S I N F O R M A T I O N

STATEWIDE MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: SECRETARIAL OFFICE PRACTICE CLUSTER CODE OF05

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
169.167-014	ADMINISTRATIVE SECRETARY	0	0	0	0	0	9.45
201.362-030	SECRETARY	0	0	0	1537	451	6.50
202.362-014	STENOGRAPHER	0	0	0	23	6	6.71

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: ADMINISTRATION/OFFICE MANAGEMENT

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE 0F06

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
ADMINISTRATIVE SERVICES MAN	11313014	344	368	4	11	15
POSTMASTERS, MAIL SUPERINTE	11515002	158	161	1	9	10
EDUCATION ADMINISTRATORS	11515005	934	963	5	30	35
MEDICINE & HEALTH SERV. MGR	11515008	280	312	5	9	14
CONSTRUCTION MANAGERS	11515017	617	589	-4	19	15
COMMUNICATION, TRANSP., UTI	11515023	566	599	6	7	13
PUBLIC ADMINISTRATION EXECU	11919002	821	834	2	26	28
GENERAL MANAGERS & TOP EXEC	11919005	6323	6717	66	207	273
MANAGERS & ADMIN. (NO DETAI	11919999	2041	2113	12	82	94
ALL OTHER MANAGEMENT SUPPOR	22021999	1421	1468	8	80	88
PROFESSIONAL/TECHN. (NO DET	22939999	1544	1610	11	40	51
BLUE-COLLAR WORKERS SUPERVI	77081001	3725	3753	5	119	124
TOTALS		18774	19487	121	639	760



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: ADMINISTRATION/OFFICE MANAGEMENT

SCHOOL YEAR 1985-86

CLUSTER CODE OF06

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
BUSINESS & MANAG	06.0101			346					346
BUSINESS ADMINIS	06.0401			340					340
BUSINESS ADMINIS	06.0499			6					6
TRANSPORTATION M	06.0705			2					2
INSTITUTIONAL MA	06.0799			2					2
INTERNATIONAL BU	06.0901			1					1
MANAGEMENT SCIEN	06.1303			1					1
MANAGER, OFFICE	169.167-034				3			1	4
GENERAL SUPERVIS	183.167-018				1				1
MANAGEMENT TRAIN	189.167-018				14			3	17
PUBLIC ADMINISTR	44.0401			15					15
***TOTALS				713	18			4	735

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S I N F O R M A T I O N

STATEWIDE MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: ADMINISTRATION/OFFICE MANAGEMENT CLUSTER CODE 0F06

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	OPEN	AVG. HRWAGE
161.167-010	MANAGEMENT ANALYST	0	1	0	0	0	15.31
166.167-030	MANAGER, EMPLOYMENT	0	0	0	0	0	10.75
166.167-042	SENIOR ENLISTED ADVISOR	0	1	0	0	0	N.A.
168.167-054	MANAGER, CREDIT & COLLECTION	0	0	0	0	0	11.37
169.167-030	MANAGER, ELECTRONIC DATA PROC	0	0	0	0	0	15.50
169.167-034	MANAGER, OFFICE	0	0	0	665	37	10.45
184.167-230	SUPERVISOR OF COMMUNICATIONS	0	1	0	0	0	N.A.
185.167-014	MANAGER, AUTOMOBILE SERVICE S	0	0	0	60	0	8.46
187.117-010	HOSPITAL ADMINISTRATOR	0	0	0	0	0	20.92
187.117-018	DIRECTOR, INSTITUTION	0	0	0	0	0	10.67
187.117-026	EXECUTIVE DIRECTOR, SHELTERED	0	0	0	0	0	10.64
187.167-058	MANAGER, BARBER OR BEAUTY SCH	0	0	0	7	0	N.A.
187.167-082	MANAGER, CUSTOMER SERVICE	0	0	0	0	0	8.46
187.167-142	MANAGER, SERVICE DEPARTMENT	0	0	0	0	0	9.93
188.137-010	SUPERVISOR	0	0	0	38	25	N.A.
189.117-014	DIRECTOR, RESEARCH & DEVELOPM	0	0	0	0	0	6.05
189.117-022	MANAGER, INDUSTRIAL ORGANIZA	0	0	0	19	1	17.15
189.117-026	PRESIDENT	0	0	0	0	0	21.41
189.117-034	VICE PRESIDENT	0	0	0	0	0	19.88
189.167-018	MANAGEMENT TRAINEE	0	0	0	0	0	5.26
189.167-030	PROGRAM MANAGER	0	0	0	0	0	8.18

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: KEY ENTRY & COMPUTER OPERATION

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE 0F07

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
DATA ENTRY KEYERS, EXC. COM	44656017	780	709	-11	23	12
DATA ENTRY KEYERS, COMPOSIN	44656021	43	45	0	1	1
TOTALS		823	754	-11	24	13

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: KEY ENTRY & COMPUTER OPERATION  
SCHOOL YEAR 1985-86

CLUSTER CODE 0F07

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
BUSINESS DATA PR	07.0301		23						23
BUSINESS COMPUTE	07.0302		20						20
BUSINESS DATA EN	07.0303		7						7
BUSINESS DATA PR	07.0399		18						18
WORD PROCESSING	07.0801		34						34
MICROCOMPUTER AP	11.0601						46		46
TERMINAL-SYSTEM	203.362-018				2				2
WORD PROCESSOR	203.362-022				1				1
CRYPTOGRAPHIC-MA	203.582-018				1				1
DATA-CODER OPERA	203.582-026							1	1
KEYPUNCH OPERATO	203.582-030				1				1
PHOTOCOMPOSING-P	203.582-042				1				1
TERMINAL OPERATO	203.582-054				5				5
COMPUTER OPERATO	213.362-010				2			5	7
***TOTALS			102		13		46	6	167

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S I N F O R M A T I O N

STATEWIDE MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: KEY ENTRY & COMPUTER OPERATION CLUSTER CODE 0F07

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	OPEN	AVG. HRWAGE
203.582-026	DATA-CODER OPERATOR	0	0	0	0	0	6.01
203.582-030	KEYPUNCH OPERATOR	0	0	0	111	74	5.78
203.582-054	TERMINAL OPERATOR	0	0	0	0	0	6.12
213.362-010	COMPUTER OPERATOR (CLERICAL)	0	5	0	346	101	7.09

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: COMPUTER SCIENCE & PROGRAMMING

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE 0F08

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
SYSTEMS ANALYSTS:DATA PROCE	22325102	340	416	13	4	17
COMPUTER PROGRAMMERS & AIDE	22325104	649	759	18	22	40
PROGRAMMERS: TOOL, NUMERICA	22325111	6	6	0	0	0
COMPUTER OPERATORS, EXC. PE	44656011	812	1021	35	12	47
PERIPHERAL EDP EQUIP. OPERA	44656014	124	127	1	3	4
TOTALS		1931	2329	67	41	108

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: COMPUTER SCIENCE & PROGRAMMING

SCHOOL YEAR 1985-86

CLUSTER CODE OF08

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
SYSTEMS ENGINEER	003.167-062							1	1
COMPUTER-APPLICA	020.067-018							1	1
PROGRAMMER, BUSI	020.162-014				1				1
PROGRAMMER, INFO	020.187-010				1				1
SOFTWARE TECHNIC	020.262-010				1				1
MANAGEMENT INFOR	06.1201			22					22
BUSINESS DATA PR	07.0305		14						14
COMPUTER & INFOR	11.0101			140					140
COMPUTER PROGRAM	11.0201			4					4
COMPUTER TECHNOL	15.0301			4					4
SUPERVISOR, COMP	213.132-010				1				1
CONTROL CLERK, D	221.382-014							1	1
***TOTALS			14	170	4			3	191

10/01/87

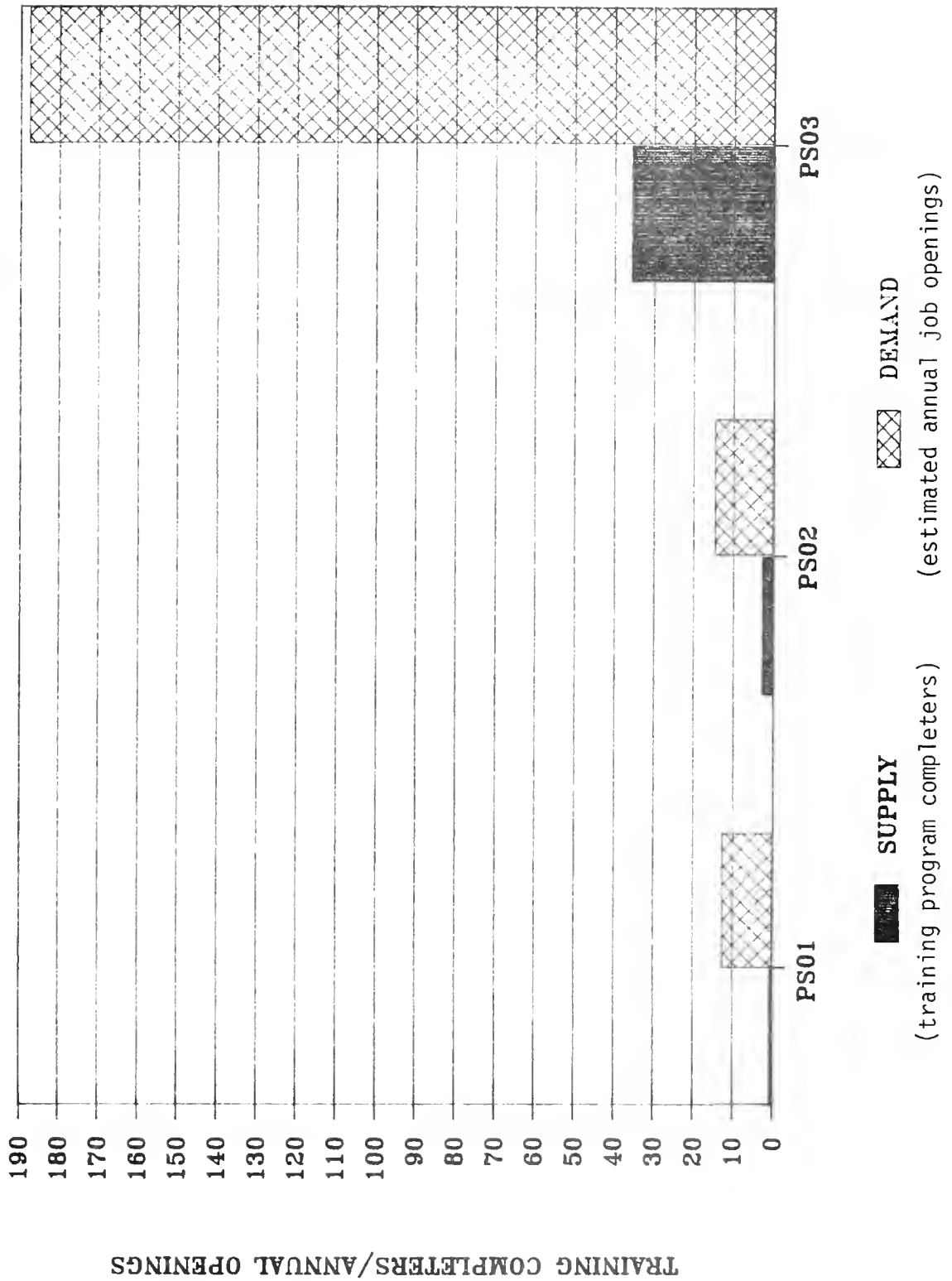
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
ANALYSIS INFORMATION

STATEWIDE MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: COMPUTER SCIENCE & PROGRAMMING CLUSTER CODE 0F08

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
012.167-066	SYSTEMS ANALYST, ELECT. DATA	0	0	0	85	41	12.69
020.062-010	COMPUTER-APPLICATIONS ENGINEE	0	0	0	0	0	18.95
020.162-014	PROGRAMMER, BUSINESS	0	0	0	52	10	N.A.
020.167-022	PROGRAMMER, ENGINEERING & SCI	0	0	0	1	0	N.A.
020.187-010	PROGRAMMER, INFORMATION SYSTE	0	0	0	0	0	11.07
020.187-014	PROGRAMMER, PROCESS CONTROL	0	0	0	0	0	10.70
219.367-026	PROGRAMMER, DETAIL	0	0	0	4	2	N.A.



# PUBLIC SERVICE CLUSTERS



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: EMERGENCY MEDICAL TECHNOLOGY

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE PS01

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
EMERGENCY MEDICAL TECHNICIA	22732508	202	213	2	7	9
AMBULANCE DRIVER, ATTENDANT	55666023	69	73	1	3	4
TOTALS		271	286	3	10	13

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: EMERGENCY MEDICAL TECHNOLOGY

SCHOOL YEAR 1985-86

CLUSTER CODE PS01

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER		JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC	JTPA	CORPS	IETARY	REHAB	*****
EMERGENCY MEDICA	079.374-010					1			1
***TOTALS						1			1

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S I N F O R M A T I O N

STATEWIDE MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: EMERGENCY MEDICAL TECHNOLOGY CLUSTER CODE PS01

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
079.374-010	EMERGENCY MEDICAL TECHNICIAN	0	1	0	0	0	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: FIRE & FIRE SAFETY

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE PS02

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
FIRE FIGHTING SUPERVISORS	55161002	120	123	1	2	3
FIRE INSPECTORS	55363001	14	14	0	0	0
FIRE FIGHTERS	55363008	582	597	3	9	12
TOTALS		716	734	4	11	15

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: FIRE & FIRE SAFETY

SCHOOL YEAR 1985-86

CLUSTER CODE PS02

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JTPA	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC		CORPS	IETARY	REHAB	*****
FIRE FIGHTER	373.364-010					3			3
***TOTALS						3			3

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S I N F O R M A T I O N

STATEWIDE  
CLUSTER TITLE: FIRE & FIRE SAFETY

MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE PS02

CODE	TITLE	MIL APPREN	UI RETURN	CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
373.364-010	FIRE FIGHTER	3	1	0	126	228	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: POLICE SCIENCE & CRIMINOLOGY

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE PS03

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
DISPATCHER: POLICE, FIRE, A	44858002	479	491	2	15	17
POLICE & DETECTIVE SUPERVIS	55161005	238	243	1	4	5
POLICE DETECTIVES	55363009	131	136	1	4	5
POLICE PATROL OFFICERS	55363014	942	970	5	16	21
CORRECTION OFFICERS & JAILE	55363017	368	432	11	31	42
PARKING ENFORCEMENT OFFICER	55363021	55	59	1	1	2
BAILIFFS	55363023	29	29	0	1	1
SHERIFFS, DEPUTIES, US MARS	55363031	728	652	-12	22	10
PRIVATE INVESTIGATOR, DETEC	55363035	69	84	3	2	5
CROSSING GUARDS	55363044	108	108	0	10	10
GUARDS & WATCH GUARDS	55363047	754	846	15	37	52
PROTECTIVE SERVICE (NO DETA	55363099	346	355	2	16	18
TOTALS		4247	4405	29	159	188



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: POLICE SCIENCE & CRIMINOLOGY

SCHOOL YEAR 1985-86

CLUSTER CODE PS03

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
PAROLE OFFICER	195.167-030							1	1
GUARD, CHIEF	372.167-014							1	1
CORRECTION OFFIC	372.667-018					6			6
GUARD, SECURITY	372.667-034					4		1	5
HOUSE OFFICER (H	376.367-018							1	1
SHERIFF, DEPUTY	377.263-010					1			1
DISPATCHER, RAD	379.362-010					2			2
CRIMINAL JUSTICE	43.0104			4					4
LAW ENFORCEMENT	43.0107			15					15
***TOTALS				19	13			4	36

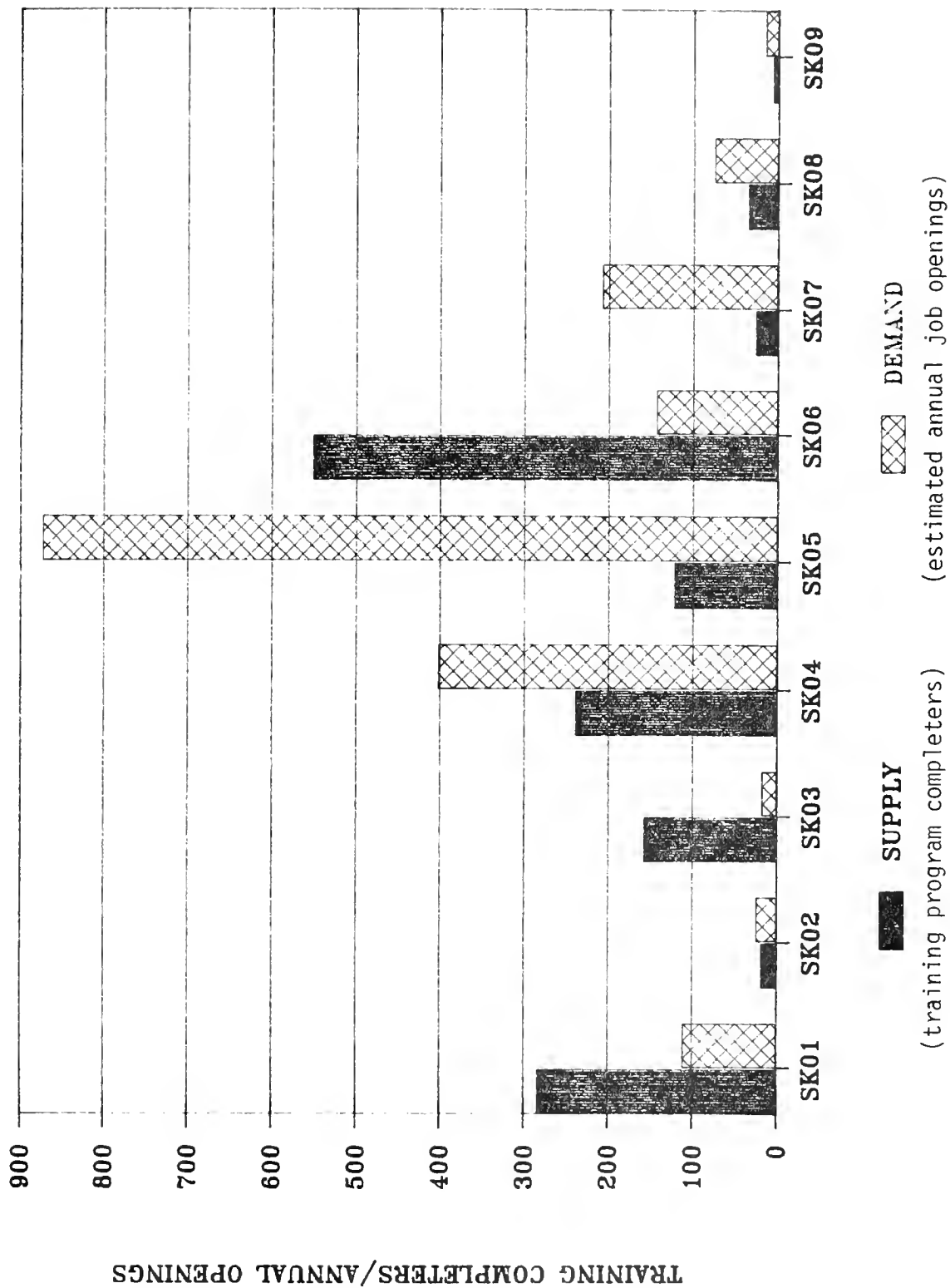
10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S I N F O R M A T I O N

STATEWIDE MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: POLICE SCIENCE & CRIMINOLOGY CLUSTER CODE PS03

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	OPEN	AVG. HRWAGE
059.267-010	INTELLIGENCE SPECIALIST	0	2	0	0	0	N.A.
189.167-034	SECURITY OFFICER	0	0	0	60	8	N.A.
193.362-014	RADIO-INTELLIGENCE OPERATOR	0	3	0	0	0	N.A.
372.667-018	CORRECTION OFFICER	0	0	0	47	39	N.A.
372.667-034	GUARD, SECURITY	0	9	0	163	220	5.77
372.667-038	MERCHANT PATROLLER	0	0	0	321	77	N.A.
375.263-014	POLICE OFFICER	0	11	0	142	15	N.A.
375.587-010	PARKING ENFORCEMENT OFFICER	0	0	0	12	5	N.A.

# SKILL CLUSTERS



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: ELECTRICAL & ELECTRONIC TECHNOLOGY

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE SK01

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
ELECTRICAL/ELECTRONIC ENGIN	22122126	310	361	9	5	14
ELECTRICAL & ELECTRONIC TEC	22122505	456	482	4	5	9
RADIO OPERATORS	22939008	12	12	0	0	0
TECHNICIANS (NO DETAIL)	22939099	123	130	1	4	5
SIGNAL OR SWITCH MAINTAINER	77285511	79	69	-1	3	2
RADIO MECHANICS	77285514	55	55	0	1	1
OTHER COMMUNICATION MECHANI	77285599	37	37	0	0	0
DATA PROCESSING EQUIP. REPA	77285705	30	55	4	0	4
HOME ENTERTAINMENT EQ. REPA	77285708	127	137	2	4	6
ELECTRIC MOTOR REPAIRERS	77285714	30	32	0	1	1
INDUSTRIAL ELECTRONICS REPA	77285717	436	441	1	14	15
ALL OTHER ELECTRICAL MECHAN	77285799	199	210	2	6	8
ELECTROMED./BIOMEDICAL REPA	77285908	10	10	0	0	0
OFFICE MACHINE SERVICER	77285926	215	263	8	4	12
COIN & VENDING MACHINE SERV	77285947	71	89	3	2	5
ELECTRICIANS	77387202	1255	1220	-5	24	19
ELECTROMECHANICAL EQ. ASSEM	77693111	3	8	1	0	1
ELECTRICAL, ELECTRONIC ASSE	77693905	71	103	5	2	7
RAILROAD BRAKE, SIGNAL, SWI	77897317	557	506	-8	12	4
TOTALS		4076	4220	26	87	113

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: ELECTRICAL & ELECTRONIC TECHNOLOGY

SCHOOL YEAR 1985-86

CLUSTER CODE SK01

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
ELECTRICAL ENGIN	003.061-010							2	2
ELECTRONICS TECH	003.161-014				1			3	4
INSTRUMENTATION	003.261-010				1				1
TELECOMMUNICATIO	09.0801						41		41
ELECTRICAL, ELEC	14.1001			109					109
ELECTRICAL TECH	15.0302			31					31
ELECTRONIC TECHN	15.0303		18	23					41
HEALTH-EQUIPMENT	359.363-010				1				1
INDUSTRIAL ELECT	47.0105		29						29
OFFICE-MACHINE S	633.281-018				2				2
MANUFACTURER'S S	638.261-018				2				2
PINSETTER MECHAN	638.261-022				3				3
TELEVISION-&-RAD	720.281-018				1			1	2
ELECTRONICS ASSE	726.261-010							1	1
PRODUCTION REPAI	726.381-014				1				1
AUDIO-VIDEO REPA	729.281-010				1				1
TELEVISION-CABLE	821.281-010				1			1	2
PROTECTIVE-SIGNA	822.361-018				1				1
METEOROLOGICAL-E	823.281-018							2	2
ELECTRONIC-SALES	828.251-010				1				1
ELECTRONICS MECH	828.281-010				3			2	5
ELECTRICAL REPAI	829.281-014							1	1
SOUND TECHNICIAN	829.281-022				1				1
ELECTRICIAN HELP	829.684-022				1				1
***TOTALS			47	163	21		41	13	285

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
ANALYSIS INFORMATION  
STATEWIDE MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: ELECTRICAL & ELECTRONIC TECHNOLOGY CLUSTER CODE SK01

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
003.061-010	ELECTRICAL ENGINEER	0	0	0	37	1	15.30
003.061-014	ELECTRICAL TEST ENGINEER	0	0	0	1	0	N.A.
003.161-014	ELECTRONICS TECHNICIAN	1	0	0	150	16	11.91
633.281-010	CASH-REGISTER SERVICER	0	0	0	1	2	N.A.
633.281-018	OFFICE-MACHINE SERVICER	1	0	0	30	14	7.03
638.261-010	AUTOMATED EQUIPMENT ENGINEER	0	0	0	4	0	N.A.
638.261-022	PINSETTER MECHANIC, AUTOMATIC	0	0	0	21	6	5.40
639.281-014	COIN-MACHINE-SERVICE REPAIRER	0	0	0	9	2	N.A.
720.281-010	RADIO REPAIRER	0	0	0	11	2	N.A.
720.281-018	TELEVISION-&-RADIO REPAIRER	0	1	0	16	4	6.72
721.281-018	ELECTRIC-MOTOR REPAIRER	0	0	0	10	1	N.A.
721.484-010	ELECTRIC-MOTOR WINDER	0	1	0	0	0	N.A.
721.684-022	ELECTRIC-MOTOR ASSEMBLER	0	0	0	4	0	N.A.
726.130-010	SUPERVISOR, ELECTRONICS	0	0	0	3	0	N.A.
726.381-010	ELECTRONICS INSPECTOR I	0	0	0	12	0	N.A.
726.384-010	ELECTRONICS ASSEMBLER (INST.	0	0	0	13	1	N.A.
726.684-018	ELECTRONICS ASSEMBLER (ELECTR	0	0	0	47	0	N.A.
726.684-022	ELECTRONICS INSPECTOR II	0	0	0	4	0	N.A.
729.384-010	ASSEMBLER,ELECTRICAL ACCESS I	0	0	0	4	0	N.A.
729.687-010	ASSEMBLER, ELECTRICAL ACCESSO	0	0	0	20	0	N.A.
823.261-018	RADIO MECHANIC	0	5	0	3	0	N.A.
824.261-010	ELECTRICIAN	15	0	0	537	73	12.54
825.281-014	ELECTRICIAN	0	2	0	0	0	N.A.
825.281-018	ELECTRICIAN, AIRPLANE	0	3	0	0	0	N.A.
825.281-030	ELEVATOR REPAIRER	0	1	0	0	0	N.A.
826.361-010	ASSEMBLER & WIRER, INDUSTRIAL	0	0	0	4	0	N.A.
828.251-010	ELECTRONIC-SALES-&-SERVICE TE	0	0	0	0	0	7.57
828.261-014	FIELD ENGINEER (ELECTRONICS)	0	0	0	0	0	11.18
828.281-010	ELECTRONICS MECHANIC	0	21	0	158	33	13.34
829.281-014	ELECTRICAL REPAIRER	0	0	0	17	2	14.99

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D    R E P O R T

STATEWIDE

CLUSTER TITLE: APPLIANCE REPAIR

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE SK02

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
HOME APPLIANCE, TOOLS REPAI	77285709	332	349	3	11	14
HEATING, A.C., REFRIGERATIO	77285902	459	462	1	11	12
TOTALS		791	811	4	22	26

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: APPLIANCE REPAIR  
SCHOOL YEAR 1985-86

CLUSTER CODE SK02

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JTPA	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC		CORPS	IETARY	REHAB	*****
HEAT-TRANSFER TE	007.181-010					1			1
MAJOR APPLIANCE	47.0106		8						8
ENVIRON.-CONTROL	637.261-014					1			1
REFRIGERATION ME	637.261-026					1			1
AIR-CONDITIONING	706.684-010					2			2
FIRE-EXTINGUISHE	709.384-010					1			1
ELECTRICAL-APPLI	723.381-010					2			2
ELECTRICAL-APPLI	827.261-010					1			1
ELECTRICAL APPLI	827.584-010							1	1
WATER-SOFTENER S	862.684-034					1			1
***TOTALS			8		10			1	19



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S    I N F O R M A T I O N  
STATEWIDE  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: APPLIANCE REPAIR  
CLUSTER CODE SK02

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
637.261-014	ENVIRON.-CONTROL-SYST-INSTALL	0	1	0	30	2	13.01
637.261-018	GAS-APPLIANCE SERVICER	2	0	0	16	2	N.A.
637.261-026	REFRIGERATION MECHANIC	1	1	0	32	5	10.20
637.664-010	ENVIR-CONT-SYS-INSTALLER-SERV	0	0	0	1	0	N.A.
827.261-010	ELECTRICAL-APPLIANCE SERVICE	0	0	0	0	0	6.48
827.661-010	HOUSEHOLD-APPLIANCE INSTALLER	1	0	0	0	0	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D   R E P O R T

STATEWIDE

CLUSTER TITLE: WELDING

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE SK03

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
WELDERS & CUTTERS	77693914	864	867	1	18	19
TOTALS		864	867	1	18	19

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: WELDING  
SCHOOL YEAR 1985-86

CLUSTER CODE SK03

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
WELDING	48.0508	74	48			25			147
WELDER, ARC	810.384-014							1	1
WELDER, COMBINAT	819.384-010				9			1	10
WELDER, PRODUCTI	819.684-010				1				1
***TOTALS		74	48		10	25		2	159

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
ANALYSIS INFORMATION

STATEWIDE  
CLUSTER TITLE: WELDING

MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE SK03

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	OPEN	AVG. HRWAGE
810.384-014	WELDER, ARC	0	0	0	0	0	9.40
811.684-014	WELDER, GAS	0	0	0	9	5	7.70
813.684-022	SOLDERER, PRODUCTION LINE	0	0	0	2	0	N.A.
819.131-014	WELDING SUPERVISOR	0	0	0	0	0	13.70
819.384-010	WELDER, COMBINATION	2	2	0	805	139	11.32
819.684-010	WELDER, PRODUCTION LINE	0	0	0	7	5	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: CARPENTRY & CONSTRUCTION TRADES

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE SK04

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
MATERIAL WORKERS (NO DETAIL	44858099	622	620	0	20	20
INSTALLERS: MANUFACTURED BL	77285938	134	148	2	13	15
CEILING TILE INSTALLERS	77387105	21	19	0	0	0
DRYWALL INSTALLERS	77387108	72	68	0	1	1
CARPENTERS	77387110	2869	2759	-17	89	72
TAPERS	77387111	48	45	0	1	1
BRICK MASONS	77387302	111	101	-1	2	1
STONE MASONS	77387305	31	29	0	1	1
HARD TILE SETTERS	77387308	4	4	0	0	0
CONCRETE & TERRAZZO FINISHE	77387311	338	326	-1	7	6
REINFORCING METAL WORKERS	77387314	96	92	0	2	2
PLASTERERS & STUCCO MASONS	77387317	48	41	0	1	1
PAINTERS & PAPERHANGERS	77387402	392	385	0	20	20
PLUMBER, PIPEFITTER, STEAMF	77387502	846	835	-1	24	23
PIPELAYING FITTERS	77387505	70	71	0	2	2
PIPELAYERS	77387508	117	113	0	3	3
CARPET INSTALLERS	77387602	52	56	1	1	2
AIR HAMMER OPERATORS	77387702	44	42	0	1	1
HIGHWAY MAINTENANCE WORKERS	77387711	1026	1052	4	26	30
INSULATION WORKERS	77387802	106	102	0	2	2
ROOFERS	77387808	170	158	-1	3	2
GLAZIERS	77387811	162	175	2	4	6
FENCE ERECTORS	77387817	104	105	0	3	3
CONSTRUCTION WORKERS (NO DE	77387899	277	272	0	10	10
BLASTERS & EXPLOSIVES WORKE	77387905	151	152	0	4	4
CABINETMAKERS & BENCH CARPE	77489311	200	201	0	9	9
FURNITURE FINISHERS	77489314	14	15	0	1	1
HELPERS: CONSTRUCTION	77998301	1263	1159	-16	38	22
HELPERS: EXTRACTIVE WORKERS	77998323	27	25	0	1	1
HAND MATERIAL MOVERS (NO DE	77998799	1499	1509	2	37	39
HAND LABORERS (NO DETAIL)	77998999	4900	4723	-29	133	104
TOTALS		15814	15402	-55	459	404

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: CARPENTRY & CONSTRUCTION TRADES  
SCHOOL YEAR 1985-86

CLUSTER CODE SK04

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
STRUCTURAL ENGIN	005.061-034							1	1
INDUSTRIAL ARTS,	21.0101	4							4
FLAGGER (CONSTRU	372.667-022				2				2
BRICKMASONRY, ST	46.0101					5			5
CARPENTRY	46.0201	108	12	6		28			154
CONCRETE PLACING	46.0402					3			3
PAINTING & DECOR	46.0408					4			4
FURNITURE MAKING	48.0702						12		12
CONCRETE-STONE F	575.461-010				1				1
CABINETMAKER	660.280-010				1				1
CABINETMAKER (WO	662.280-010							1	1
MOLDER OPERATOR	665.682-018				2				2
SHAPER OPERATOR	665.682-034				1				1
CUT-OFF-SAW OPER	667.682-022				1				1
MACHINE SETTER (	669.280-010				2				2
WOODWORKING-MACH	669.686-034				1				1
FURNITURE FINISH	763.381-010							1	1
REPAIRER, ASSEMB	769.684-038				1				1
WOODWORKING-SHOP	769.687-054				1				1
PAINTER (CONST.)	840.381-010				1			1	2
TAPER	842.664-010				1				1
CARPENTER	860.381-022				6				6
CARPENTER APPREN	860.381-026				1				1
FORM BUILDER	860.381-046				1				1
BRICKLAYER APPRE	861.381-022				1				1
MARBLE SETTER	861.381-030				1				1
PIPE FITTER	862.381-018				2				2
PLUMBER (CONST.)	862.381-030				1				1
BLOWER INSULATOR	863.664-010				1				1
SIDER	863.684-014				1				1
CARPET LAYER	864.381-010				1				1
FLOOR LAYER	864.481-010				1				1
GLAZIER	865.381-010				1				1
ROOFER	866.381-010				1				1
CONCRETE-BUILDIN	869.664-010				1				1
CONSTRUCTION WOR	869.664-014				7			1	8
ASSEMBLER	869.684-010				3				3
INSTALLER	869.684-026				1				1
CONSTRUCTION WOR	869.687-026				4			3	7
***TOTALS		112	12	6	50	40	12	8	240

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S   I N F O R M A T I O N  
STATEWIDE  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: CARPENTRY & CONSTRUCTION TRADES  
CLUSTER CODE SK04

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CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	OPEN	AVG. HRWAGE
182.267-010	CONSTRUCTION INSPECTOR	0	0	0	14	2	N.A.
660.280-010	CABINETMAKER	1	0	0	89	33	7.28
760.684-010	CARPENTER, BENCH	0	0	0	0	0	7.13
763.684-014	CABINET ASSEMBLER	0	0	0	5	1	N.A.
840.381-010	PAINTER (CONST.)	3	0	0	519	221	10.76
842.361-018	PLASTERER	0	0	0	10	0	N.A.
842.664-010	TAPER	2	0	0	28	2	N.A.
844.364-010	CEMENT MASONS	0	0	0	178	50	N.A.
860.281-010	CARPENTER, MAINTENANCE	0	0	0	15	4	7.92
860.381-022	CARPENTER	13	1	0	2211	229	9.51
861.381-018	BRICKLAYER	0	0	0	92	6	N.A.
862.261-010	PIPE FITTER	0	0	0	6	0	N.A.
862.381-018	PIPE FITTER	16	0	0	204	6	N.A.
862.381-030	PLUMBER (CONST.)	5	2	0	189	25	12.74
862.381-034	PLUMBER APPRENTICE	0	0	0	42	5	N.A.
862.684-014	LABORER, CONSTRUCTION OR LEAK	0	0	0	11	2	N.A.
863.381-014	PIPE COVERER & INSULATOR	0	0	0	4	0	N.A.
864.381-010	CARPET LAYER	0	0	0	45	10	N.A.
865.381-010	GLAZIER	4	0	0	48	5	11.28
866.381-010	ROOFER	3	0	0	249	130	N.A.
869.664-014	CONSTRUCTION WORKER I	0	0	0	2219	990	N.A.
869.684-010	ASSEMBLER	0	0	0	33	20	N.A.
869.687-026	CONSTRUCTION WORKER II	0	1	0	1666	579	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: HEAVY EQUIPMENT REPAIR & OPERATION

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE SK05

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
LOGGING TRACTOR OPERATORS	66373011	603	513	-14	13	-1
MILLWRIGHTS	77285123	314	294	-2	8	6
MAINTENANCE REPAIRERS, GENE	77285132	3397	3661	44	319	363
BUS, TRUCK, HEAVY EQUIP. ME	77285311	1138	1197	10	30	40
HEAVY EQUIPMENT MECHANICS	77285314	749	734	-2	23	21
RIGGERS	77285935	17	17	0	1	1
RAIL-TRACK LAYING EQUIP. OP	77387714	104	91	-1	2	1
ROTARY DRILL OPERATORS	77387911	446	418	-4	10	6
ROUSTABOUTS	77387921	839	670	-27	15	-12
ROOF BOLTERS	77387923	33	49	3	1	4
MINE CUTTING MACHINE OPERAT	77387943	134	173	7	3	10
TRUCK DRIVERS	77897101	8688	9093	68	282	350
RAIL YARD ENGINEERS, DINKEY	77897308	158	151	0	7	7
TANK CAR & TRUCK LOADERS	77897905	16	14	0	0	0
UNDERGROUND LOADING MACH. O	77897932	327	335	1	10	11
GRADER, DOZER, SCRAPER OPER	77897938	392	389	0	12	12
HOIST, WINCH, CRANE OPERATO	77897940	212	193	-2	6	4
INDUSTRIAL TRUCK/TRACTOR OP	77897947	935	918	-2	15	13
OPERATING ENGINEERS	77897956	1253	1220	-5	30	25
MATERIAL MOVING OPER. (NO D	77897989	339	349	2	11	13
TOTALS		20094	20479	76	798	874



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: HEAVY EQUIPMENT REPAIR & OPERATION

SCHOOL YEAR 1985-86

CLUSTER CODE SK05

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
HEAVY EQUIP. MAI	47.0302		22			3			25
DIESEL ENGINE ME	47.0605		25			4			29
CONSTRUCTION EQU	49.0202		8			11			19
IMPREGNATING-TAN	599.685-046				3				3
CONSTRUCTION-EQU	620.261-022				1				1
MECHANIC, INDUST	620.281-050				1				1
DIESEL MECHANIC	625.281-010				2				2
SHIELD RUNNER (C	850.682-010							1	1
BULLDOZER OPERAT	850.683-010				7				7
DITCHER OPERATOR	850.683-014				2				2
DRAGLINE OPERATO	850.683-018				2				2
FORM-GRADER OPER	850.683-022				2				2
MUCKING-MACHINE	850.683-026				2				2
POWER-SHOVEL OPE	850.683-030				2				2
ROCK-DRILL OPERA	850.683-034				2				2
SCRAPER OPERATOR	850.683-038				1				1
TOWER-EXCAVATOR	850.683-042				1				1
UTILITY-TRACTOR	850.683-046				1				1
WELL-DRILL OPERA	859.362-010				2				2
OPERATING ENGINE	859.683-010				4			1	5
HIGHWAY-MAINTENA	899.684-014				1				1
CONCRETE-MIXING-	900.683-010				1				1
TRUCK DRIVER, HE	905.663-014				5			1	6
FRONT-END LOADER	921.683-042				1				1
YARD SUPERVISOR,	929.137-030				2				2
LOGGING-TRACTOR	929.683-010				2				2
***TOTALS			55		47	18		3	123

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S I N F O R M A T I O N

STATEWIDE MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: HEAVY EQUIPMENT REPAIR & OPERATION CLUSTER CODE SK05

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
620.261-022	CONSTRUCTION-EQUIPMENT MECHAN	4	3	0	167	23	12.03
620.281-046	MAINTENANCE MECHANIC	0	0	0	17	9	N.A.
620.381-014	MECHANIC, ENDLESS TRACK VEHIC	0	8	0	0	0	N.A.
620.381-022	REPAIRER, HEAVY	0	0	0	2	0	N.A.
625.281-010	DIESEL MECHANIC	1	0	0	399	37	12.91
626.281-010	MACHINE REPAIRER, MAINTENANCE	0	0	0	5	0	N.A.
638.281-014	MAINTENANCE MECHANIC	0	1	0	205	35	10.93
638.684-018	MAINTENANCE-MECHANIC HELPER	0	0	0	9	3	N.A.
639.281-010	AVIATION SUPPORT EQUIPMENT RE	0	4	0	0	0	N.A.
850.663-022	MOTOR GRADER OPERATOR (CONST.	0	0	0	0	0	15.50
850.683-010	BULLDOZER OPERATOR I	0	1	0	37	7	15.44
850.683-030	POWER-SHOVEL OPERATOR	0	0	0	0	0	14.39
853.663-014	CONCRETE-PAVING-MACHINE OPERA	0	1	0	0	0	N.A.
859.683-010	OPERATING ENGINEER	9	4	0	1694	169	14.52
902.683-010	DUMP-TRUCK DRIVER	0	0	0	0	0	14.74
903.683-018	TANK-TRUCK DRIVER	0	0	0	12	3	7.61
904.383-010	TRACTOR-TRAILER-TRUCK DRIVER	0	3	0	1302	343	8.48
905.663-014	TRUCK DRIVER, HEAVY	0	3	0	1735	175	9.63
921.663-010	BRIDGE-OR-GANTRY-CRANE OPERAT	0	0	0	25	0	N.A.
921.663-022	DERRICK OPERATOR	0	0	0	0	0	13.39
921.683-042	FRONT-END LOADER OPERATOR	0	0	0	0	0	15.44
921.683-050	INDUSTRIAL-TRUCK OPERATOR	0	1	0	0	0	9.79
929.683-010	LOGGING-TRACTOR OPERATOR	0	0	0	249	34	N.A.
929.683-014	TRACTOR OPERATOR	0	0	0	0	0	11.57
930.684-026	ROTARY-DRILLER HELPER	0	0	0	440	40	N.A.
932.683-018	MECHANICAL-SHOVEL OPERATOR	0	0	0	0	0	13.13
950.382-026	STATIONARY ENGINEER	0	2	0	49	215	10.25

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: TRANSPORTATION & ENGINE REPAIR

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE SK06

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
AUTO & MOTORCYCLE MECHANICS	77285301	1853	1961	18	60	78
AUTOMOTIVE BODY, RELATED RE	77285305	597	630	6	12	18
RAIL CAR REPAIRERS	77285317	255	222	-5	8	3
SMALL ENGINE SPECIALISTS	77285328	106	116	2	3	5
BICYCLE REPAIRERS	77285951	22	24	0	1	1
TIRE REPAIRERS & CHANGERS	77285953	442	487	8	10	18
PAINTERS: TRANSPORTATION EQ	77592947	32	34	0	1	1
PAINTING & COATING, HAND	77693947	10	11	0	0	0
SERVICE STATION ATTENDANTS	77897805	918	931	2	19	21
TOTALS		4235	4416	31	114	145

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: TRANSPORTATION & ENGINE REPAIR

SCHOOL YEAR 1985-86

CLUSTER CODE SK06

PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
AUTOMOTIVE TECHN	15.0803			56					56
SERVICE MANAGER	185.167-058				1				1
AUTOMOTIVE BODY	47.0603	16	20			7			43
AUTOMOTIVE MECHA	47.0604	240	112			14			366
SMALL ENGINE REP	47.0606	5	15			1			21
MECHANICS & REPA	47.9999		2						2
BRAKE-LINE FINIS	579.665-010							1	1
AUTOMOBILE MECHA	620.261-010				8				8
AUTOMOBILE-MECHA	620.261-012				3				3
AUTOMOBILE-REPAI	620.261-018							1	1
AIR-CONDITIONING	620.281-010				1				1
AUTOMOTIVE TECHN	620.281-014				1				1
BRAKE REPAIRER	620.281-026				1				1
FRONT-END MECHAN	620.281-038				4				4
MOTORCYCLE REPAI	620.281-054				1				1
TRANSMISSION MEC	620.281-062				1				1
TUNE-UP MECHANIC	620.281-066				2				2
MAINTENANCE MECH	620.664-014				1				1
AUTOMOBILE-MECHA	620.684-014				1				1
USED-CAR RENOVAT	620.684-034				4				4
CAR-REPAIRER HEL	622.684-014				1				1
SMALL-ENGINE MEC	625.281-034				2			2	4
AUTOMOBILE-UPHOL	780.381-014				1				1
NEW-CAR GET-READ	806.361-026				1				1
ASSEMBLER, CAMPE	806.684-018				4				4
FIBERGLASS LAMIN	806.684-054							1	1
TRUCK-BODY BUILD	807.281-010				2				2
AUTOMOBILE-BODY	807.381-010				7			1	8
SERVICE MECHANIC	807.381-022				1				1
MUFFLER INSTALLE	807.664-010				1			1	2
AUTOMOBILE-SERVI	915.467-010				3				3
TIRE REPAIRER	915.684-010				2				2
LUBRICATION SERV	915.687-018				3				3
***TOTALS		261	149	56	57	22		7	552

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S   I N F O R M A T I O N  
STATEWIDE  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: TRANSPORTATION & ENGINE REPAIR  
CLUSTER CODE SK06

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
168.267-058	INSPECTOR, MOTOR VEHICLES	0	0	0	11	11	N.A.
185.167-058	SERVICE MANAGER (AUTO.)	0	0	0	0	0	10.30
620.131-014	SUPERVISOR, GARAGE	0	1	0	0	0	N.A.
620.261-010	AUTOMOBILE MECHANIC	11	11	0	974	187	10.49
620.281-010	AIR-CONDITIONING MECHANIC (AU	0	0	0	20	2	N.A.
620.281-026	BRAKE REPAIRER	1	0	0	0	0	N.A.
620.281-054	MOTORCYCLE REPAIRER	0	0	0	0	0	7.06
620.281-062	TRANSMISSION MECHANIC	0	0	0	0	0	9.00
620.281-066	TUNE-UP MECHANIC	1	0	0	0	0	N.A.
620.381-010	AUTOMOBILE-RADIATOR MECHANIC	0	0	0	0	0	8.69
620.684-014	AUTOMOBILE-MECHANIC HELPER	0	0	0	0	0	6.23
623.281-034	MAINTENANCE MECHANIC, ENGINE	0	5	0	0	0	N.A.
623.281-038	MOTORBOAT MECHANIC	1	0	0	0	0	N.A.
625.281-026	GAS-ENGINE REPAIRER	0	5	0	0	0	6.60
625.281-034	SMALL-ENGINE MECHANIC	0	0	0	91	21	N.A.
629.381-014	OIL-FIELD EQUIPMENT MECHANIC	0	0	0	0	0	8.81
638.261-018	MANUFACTURER'S SERVICE REPRES	0	0	0	0	0	9.54
639.681-010	BICYCLE REPAIRER	0	0	0	0	0	3.46
750.384-010	TIRE BUILDER, AUTOMOBILE	0	0	0	1	0	N.A.
806.361-026	NEW-CAR GET-READY MECHANIC	0	0	0	0	0	5.41
806.381-058	TRAILER ASSEMBLER	0	0	0	5	0	N.A.
806.684-010	ASSEMBLER, AUTOMOTIVE	0	0	0	1	0	N.A.
806.684-038	AUTOMOBILE-ACCESSORIES INSTAL	0	0	0	0	0	5.96
807.381-010	AUTOMOBILE-BODY REPAIRER	5	1	0	340	57	9.54
845.381-014	PAINTER, TRANSPORTATION EQUIP	0	0	0	17	7	N.A.
915.467-010	AUTOMOBILE-SERVICE-STATION AT	0	0	0	405	100	4.86
915.684-010	TIRE REPAIRER	0	0	0	0	0	6.17
915.687-018	LUBRICATION SERVICER	0	0	0	31	7	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: MACHINE SHOP

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE SK07

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
PRECISION INSPECTORS, GRADE	77183002	141	136	0	3	3
PRODUCTION INSPECTORS, GRAD	77183004	362	349	-1	11	10
MACHINERY MECH: SEWING MACH	77285113	6	6	0	0	0
MACHINERY MECH: UNDERGROUND	77285117	2	3	0	0	0
MACHINERY MECHANIC: PLANT	77285118	81	83	0	2	2
ALL OTHER MACHINERY MECHANI	77285119	908	923	3	29	32
MACHINERY MAINTENANCE WORKE	77285128	402	391	-1	10	9
MECHANICS, INSTALLERS (NO D	77285999	661	682	4	25	29
TOOL & DIE MAKERS	77489102	21	22	0	1	1
MACHINISTS	77489108	613	663	8	18	26
PATTERN & MODEL MAKERS: WOO	77489302	3	3	0	0	0
WOOD MACHINISTS	77489308	60	57	0	1	1
SAWING MACH. TOOL SETTER/OP	77591102	2	3	0	0	0
LATHE, TURNING MACH. SETTER	77591105	8	10	0	0	0
MACHINE TOOL CUTTING OPER.,	77591117	21	26	1	1	2
PRESS, BRAKE MACH.SETTER/OP	77591305	1	1	0	0	0
EXTRUDING MACH. SETTER/OPER	77591311	1	1	0	0	0
MACHINE FORMING OPERATORS,	77591321	8	10	0	0	0
NUMERICAL CONTROL MACH. TOO	77591502	5	6	0	0	0
COMBINATION MACH. TOOL SET/	77591505	3	3	0	0	0
COMBINATION MACH. TOOL OPER	77591508	80	81	0	2	2
PLASTIC MOLDING, CASTING OP	77591905	15	23	1	0	1
OTHER METAL/PLASTIC MACH. O	77592198	80	81	0	2	2
SAWING MACHINE SETTER/OPERA	77592302	37	33	0	1	1
SAWING MACHINE OPERATOR/TEN	77592308	666	604	-9	20	11
WOODWORKING MACHINE SETTER/	77592311	98	88	-1	8	7
WOODWORKING MACHINE OPERATO	77592314	166	164	0	4	4
PAPER GOODS MACHINE SETTER/	77592914	10	11	0	0	0
CUTTING & SLICING MACHINE O	77592944	61	62	0	2	2
COATING, PAINTING MACH. OPE	77592953	81	86	1	2	3
CEMENTING, GLUING MACHINE O	77592956	147	135	-1	4	3
SEPARATING, FILTERING MACH.	77592962	36	46	2	1	3
CRUSHING & MIXING MACHINE O	77592965	405	425	3	10	13
EXTRUDING, FORMING OPERATOR	77592971	87	77	-1	2	1
PACKAGING, FILLING MACHINE	77592974	305	281	-3	7	4
ALL OTHER MACHINE SETTERS/O	77592997	54	57	1	1	2
MACHINE OPERATORS (NO DETAI	77592998	506	523	3	13	16
MACHINE BUILDERS	77693105	2	2	0	0	0
COIL WINDERS, TAPERS, FINIS	77693908	3	8	1	0	1
PORTABLE MACHINE CUTTERS	77693928	2	2	0	0	0
CONVEYOR OPERATORS & TENDER	77897951	285	271	-1	6	5
MACHINE FEEDERS & OFFBEARER	77998502	1264	1153	-18	32	14
TOTALS		7699	7591	-8	218	210

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: MACHINE SHOP  
SCHOOL YEAR 1985-86

CLUSTER CODE SK07

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
DIE-DESIGNER APP	007.161-014							1	1
MACHINE TOOL OPE	48.0503		14			1			15
MOLD SETTER	556.380-010				1				1
MACHINIST (GENER	600.280-022				2				2
MOLD MAKER, DIE-	601.280-030				1				1
POWER-PRESS TEND	617.685-026				1				1
MAINTENANCE MECH	629.281-030				1				1
GUNSMITH	632.281-010							1	1
MACHINIST, WOOD	669.380-014				1				1
BUFFER I	705.684-014							1	1
ASSEMBLER, PRODU	706.684-018				1				1
LAMINATOR, PREFO	754.484-010				1				1
***TOTALS			14		9	1		3	27

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S   I N F O R M A T I O N

STATEWIDE

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER TITLE: MACHINE SHOP

CLUSTER CODE SK07

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
521.682-026	GRINDER OPERATOR	0	0	0	0	0	8.51
556.685-038	INJECTION-MOLDING-MACHINE TE	0	0	0	0	3	N.A.
557.382-010	EXTRUDER OPERATOR	0	0	0	2	0	N.A.
575.382-014	FORMING-MACHINE OPERATOR	0	0	0	1	0	N.A.
600.280-022	MACHINIST (GENERAL)	3	3	0	233	27	10.15
600.280-034	MACHINIST, AUTOMOTIVE	0	0	0	0	0	8.86
600.380-018	MACHINE SET-UP OPERATOR	0	0	0	6	0	6.51
601.280-046	TOOL-&-DIE MAKER	0	0	0	1	0	10.59
603.682-026	POLISHING-MACHINE OPERATOR	0	0	0	1	0	N.A.
603.685-062	PRODUCTION GRINDER (MACH. SHO	0	0	0	0	0	8.62
604.280-014	SCREW MACHINE OPERATOR (MACH.	1	0	0	0	0	7.80
604.380-022	SCREW-MACHINE SET-UP OPERATO	0	0	0	2	0	N.A.
604.685-026	LATHE OPERATOR, PRODUCTION	0	0	0	2	4	N.A.
605.380-010	TAPE CONTROL SKIN-OR-SPAR-MIL	0	0	0	0	0	7.41
606.682-014	DRILL-PRESS OPERATOR	0	0	0	0	0	7.84
609.684-014	LABORER, GENERAL (MACHINE SHO	0	0	0	3	2	7.91
609.685-018	PRODUCTION MACHINE TENDER	0	0	0	3	2	10.20
615.482-022	PUNCH-PRESS OPERATOR	0	0	0	2	0	N.A.
617.685-026	POWER-PRESS TENDER	0	0	0	0	11	N.A.
619.130-030	SUPERVISOR, LINE	0	0	0	0	0	11.49
641.685-022	CARTON-FORMING-MACHINE OPERAT	0	0	0	1	0	N.A.
691.382-010	EXTRUDING-MACHINE OPERATOR	0	0	0	1	0	N.A.
701.381-014	SAW FILER	1	0	0	0	0	11.02
705.687-014	LABORER, GRINDING & POLISHING	0	0	0	2	0	N.A.
754.381-018	PLASTICS BENCH MECHANIC	2	0	0	0	0	N.A.
842.361-010	LATHER	0	0	0	5	0	N.A.



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: METALWORKING

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE SK08

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
STRUCTURAL METAL WORKERS	77387814	162	154	0	3	3
PATTERN & MODEL MAKERS: MET	77489114	17	18	0	0	0
PRECISION LAYOUT WORKERS: M	77489117	3	4	0	0	0
SHEET METAL WORKERS	77489132	516	508	0	11	11
BOILERMAKERS	77489135	38	36	0	1	1
PRECISION FOUNDRY MOLD/CORE	77489902	9	10	0	0	0
PRECISION MOLDERS, SHAPERS	77489905	27	27	0	1	1
PRECISION PATTERN, MODELMAK	77489908	7	8	0	0	0
PRECISION DETAIL DESIGN	77489911	17	27	2	1	3
STRUCTURAL METAL FABRICATOR	77591714	333	369	6	9	15
METAL MOLDING, CASTING SETT	77591908	12	13	0	0	0
ELECTROLYTIC PLATING OPER.,	77591921	32	38	1	1	2
NONELECTROLYTIC PLATING OPE	77591926	2	2	0	0	0
AIRCRAFT STRUCTURE ASSEMBLY	77693102	3	3	0	0	0
PRECISION STRUCT. METAL FIT	77693108	18	20	0	1	1
METAL POURERS, BASIC SHAPES	77693941	24	18	0	0	0
MOLDERS & CASTERS, HAND	77693944	3	3	0	0	0
ASSEMBLERS & FABRICATORS	77693956	338	421	14	10	24
ASSEMBLERS, HAND WORK (NO D	77693999	175	231	9	7	16
TOTALS		1736	1910	32	45	77

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: METALWORKING  
SCHOOL YEAR 1985-86

CLUSTER CODE SK08

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
PRECISION METAL	48.0501	33							33
BRAKE OPERATOR 1	617.360-010					1			1
FABRICATOR-ASSEM	809.381-010					1			1
ASSEMBLER, UNIT	809.681-010					1			1
***TOTALS		33				3			36

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
 A N A L Y S I S I N F O R M A T I O N

STATEWIDE  
 CLUSTER TITLE: METALWORKING

MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
 CLUSTER CODE SK08

CODE	TITLE	MIL APPREN	UI RETURN	CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
199.361-010	RADIOGRAPHER (INDUSTRIAL)	0	0	0	26	2	N.A.
509.686-010	LABORER, GENERAL (IRON & STEE	0	0	0	27	0	N.A.
518.361-010	MOLDER (FOUNDRY)	0	0	0	0	0	7.19
519.687-022	FOUNDRY WORKER, GENERAL	0	0	0	14	0	4.66
619.360-014	METAL FABRICATOR	0	0	0	6	0	N.A.
619.381-010	INSPECTOR (IRON & STEEL PRODU	0	0	0	1	0	N.A.
638.261-014	MACHINERY ERECTOR	0	0	0	1	0	N.A.
638.281-018	MILLWRIGHT	0	0	0	139	8	12.13
709.684-014	ASSEMBLER, METAL FURNITURE	0	0	0	1	0	N.A.
724.684-026	COIL WINDER	0	0	0	4	0	N.A.
801.361-014	STRUCTURAL-STEEL WORKER	3	0	0	0	0	N.A.
804.281-010	SHEET-METAL WORKER	4	1	0	136	17	N.A.
805.261-014	BOILERMAKER	10	0	0	67	0	N.A.
806.134-010	SUPERVISOR, AUTOMOBILE ASSEMB	0	0	0	0	0	9.37
806.381-046	SHIPFITTER(SHIP BLDG & REPAIR	0	7	0	2	0	N.A.
807.281-010	TRUCK-BODY BUILDER	0	0	0	0	0	8.58
809.281-010	LAY-OUT WORKER 1	0	0	0	2	0	N.A.
809.381-010	FABRICATOR-ASSEMBLER, METAL P	0	0	0	0	0	10.72
809.684-010	ASSEMBLER, PRODUCTION LINE (M	0	0	0	1	0	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: UTILITIES

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE SK09

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
METER READERS: UTILITIES	44858014	210	213	1	4	5
CENTRAL OFFICE & PBX INSTAL	77285502	270	229	-6	3	-3
FRAME WIRERS: CENTRAL OFFIC	77285505	19	17	0	0	0
TELEPHONE, CABLE TV INSTALL	77285702	322	313	-1	4	3
ELECTRICAL POWERLINE INSTAL	77285723	562	561	0	7	7
TELEPHONE STATION INSTALLER	77285726	257	239	-2	3	1
ELECTRIC METER INSTALLERS (	77285911	115	117	0	3	3
TOTALS		1755	1689	-8	24	16

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: UTILITIES  
SCHOOL YEAR 1985-86

CLUSTER CODE SK09

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JTPA	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC		CORPS	IETARY	REHAB	*****
ELECTRIC-METER T	821.381-010					1			1
STATION INSTALLE	822.261-022					1			1
PRIVATE-BRANCH-E	822.281-022							1	1
CENTRAL-OFFICE I	822.361-014					1			1
LINE INSTALLER-R	822.381-014					2			2
CABLE SPLICER (U	829.361-010					1			1
***TOTALS						6		1	7

10/01/87

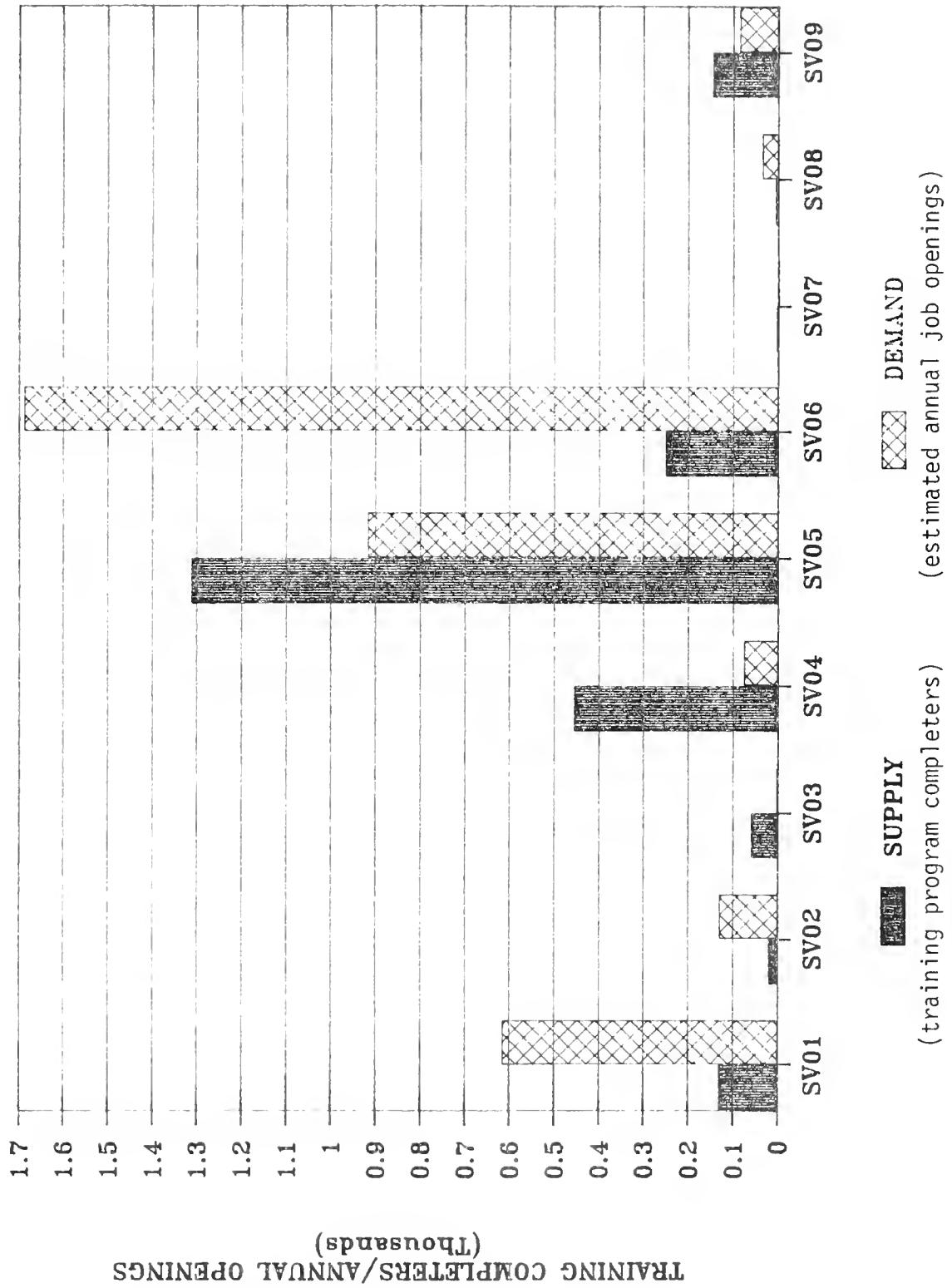
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S   I N F O R M A T I O N

MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE SK09

STATEWIDE  
CLUSTER TITLE: UTILITIES

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	OPEN	AVG. HRWAGE
209.567-010	METER READER (UTILITY)	0	0	0	0	0	7.98
729.281-038	RELAY TESTER (UTILITY)	1	0	0	0	0	N.A.
821.131-014	LINE SUPERVISOR (UTILITY)	0	0	0	0	0	16.22
821.261-014	LINE MAINTAINER (UTILITY)	0	0	0	0	0	11.83
821.361-018	LINE ERECTOR (UTILITY)	8	0	0	0	0	15.09
821.361-026	LINE REPAIRER (UTILITY)	6	1	0	24	1	15.24
822.261-022	STATION INSTALLER-&-REPAIRER	0	3	0	0	0	N.A.
822.281-010	AUTOMATIC-EQUIPMENT TECHNICIA	0	3	0	0	0	N.A.
822.281-014	CENTRAL-OFFICE REPAIRER (UTIL	3	1	0	2	0	N.A.
822.281-018	MAINTENANCE MECHANIC, TELEPHO	0	4	0	12	3	N.A.
822.361-014	CENTRAL-OFFICE INSTALLER (UTI	2	0	0	0	0	N.A.
822.381-014	LINE INSTALLER-REPAIRER (TEL.	0	4	0	0	0	N.A.
822.381-018	PRIVATE-BRANCH-EXCHANGE INSTA	10	0	0	0	0	13.28
862.361-014	GAS-MAIN FITTER (UTILITY)	4	0	0	0	0	N.A.

# SERVICE CLUSTERS



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: INSTITUTIONAL & BUILDING SERVICE

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE SV01

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
HOUSEKEEPERS, HOTEL & MOTEL	55761008	419	473	9	14	23
JANITOR, PORTER, CLEANER, M	55767001	8780	9568	131	291	422
PEST CONTROLLERS & ASSISTAN	55767008	46	58	2	1	3
BUILDING SERVICE (NO DETAIL	55767099	861	920	10	28	38
SERVICE WORKERS (NO DETAIL)	55969999	1388	1554	28	87	115
REFUSE COLLECTORS	77998705	360	370	2	16	18
TOTALS		11854	12943	182	437	619



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: INSTITUTIONAL & BUILDING SERVICE  
SCHOOL YEAR 1985-86

CLUSTER CODE SV01

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
MANAGER, APARTME	186.167-018							2	2
SUPERINTENDENT,	189.167-046				1				1
HOUSEKEEPER	321.137-010				1			1	2
CLEANER, HOSPITA	323.687-010				1				1
CLEANER, HOUSEKE	323.687-014				4			2	6
SUPERVISOR, JANI	381.137-010				1				1
CENTRAL-SUPPLY W	381.687-010				1			1	2
CLEANER, COMMERC	381.687-014							1	1
CLEANER, INDUSTR	381.687-018				1				1
JANITOR	382.664-010				22			6	28
BUILDING & PROPE	46.0401					20			20
MAINTENANCE SUPE	891.137-010				1				1
CHIMNEY SWEEP	891.687-010				1				1
MAINTENANCE REPA	899.381-010				6			1	7
MOBILE-HOME-LOT	899.484-010				2				2
***TOTALS					42	20		14	76

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S I N F O R M A T I O N

STATEWIDE MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: INSTITUTIONAL & BUILDING SERVICE CLUSTER CODE SV01

CODE	TITLE	MIL APPREN	UI RETURN	CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
187.167-046	EXECUTIVE HOUSEKEEPER	0	0	0	0	0	6.78
301.474-010	HOUSE WORKER, GENERAL	0	0	0	326	429	N.A.
301.687-010	CARETAKER (ODD JOB WORKER)	0	0	0	0	0	4.56
321.137-010	HOUSEKEEPER	0	0	0	0	0	4.81
323.687-010	CLEANER, HOSPITAL	0	0	0	51	11	4.36
323.687-014	CLEANER, HOUSEKEEPING	0	0	0	1217	939	N.A.
381.137-010	SUPERVISOR, JANITORIAL SERVIC	0	0	0	0	0	6.33
381.687-014	CLEANER, COMMERCIAL OR INSTIT	0	0	0	724	1001	4.78
381.687-018	CLEANER, INDUSTRIAL	0	0	0	0	0	6.23
382.664-010	JANITOR	0	0	0	0	0	5.02
389.684-010	EXTERMINATOR	0	0	0	6	1	N.A.
899.281-014	MAINTENANCE REPAIRER, FACTORY	0	0	0	23	100	N.A.
899.381-010	MAINTENANCE REPAIRER, BUILDIN	0	0	0	572	206	6.95
899.684-022	MAINTENANCE-REPAIRER HELPER,	0	0	0	3	5	N.A.
915.473-010	PARKING-LOT ATTENDANT	0	0	0	16	49	3.49
915.667-010	CAR-WASH ATTENDANT, AUTOMATIC	0	0	0	21	15	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D    R E P O R T

STATEWIDE

CLUSTER TITLE: VEHICLE OPERATORS & CLEANERS

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE SV02

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
BUS DRIVERS	77897108	281	305	4	9	13
BUS DRIVERS: SCHOOL	77897111	1313	1477	27	44	71
TAXI DRIVERS & CHAUFFEURS	77897114	103	111	1	5	6
RAILROAD CONDUCTORS, YARDMA	77897302	367	347	-2	11	9
LOCOMOTIVE ENGINEERS	77897305	160	157	0	8	8
LOCOMOTIVE FIRERS	77897311	38	22	-2	1	-1
PARKING LOT ATTENDANTS	77897808	12	16	1	1	2
ALL OTHER TRANSPORTATION	77897899	156	171	3	5	8
VEHICLE, EQUIPMENT CLEANERS	77998905	458	501	7	11	18
TOTALS		2888	3107	39	95	134

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: VEHICLE OPERATORS & CLEANERS

SCHOOL YEAR 1985-86

CLUSTER CODE SV02

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JTPA	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC		CORPS	IETARY	REHAB	*****
RATE ANALYST, FR	214.267-010					1		1	2
CARGO CHECKER	222.367-010					1			1
DELIVERER, MERCH	299.477-010					2			2
VAN DRIVER	905.663-018					1			1
TRUCK DRIVER HEL	905.687-010							1	1
TRUCK DRIVER, LI	906.683-022					3		2	5
DRIVER SUPERVISO	909.137-010							1	1
TAXICAB STARTER	913.367-010							1	1
BUS DRIVER	913.463-010					1			1
TAXI DRIVER	913.463-018					1		1	2
CAR-WASH SUPERVI	915.137-010					1			1
CAR-WASH ATTENDA	915.667-010					2			2
CLEANER II (TRAN	919.687-014							1	1
***TOTALS						13		8	21

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S I N F O R M A T I O N

STATEWIDE MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: VEHICLE OPERATORS & CLEANERS CLUSTER CODE SV02

CODE	TITLE	MIL APPREN	UI RETURN	CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
184.117-014	DIRECTOR, TRANSPORTATION	0	1	0	0	0	N.A.
906.683-010	FOOD-SERVICE DRIVER (HOTEL/RE	0	0	0	0	0	6.79
906.683-022	TRUCK DRIVER, LIGHT	0	0	0	566	161	7.09
913.463-010	BUS DRIVER	0	0	0	297	74	6.54
913.463-018	TAXI DRIVER	0	0	0	59	27	3.08
913.683-010	AMBULANCE DRIVER	0	0	0	0	0	7.44
919.683-014	DRIVER (AUTO MFG.)	0	0	0	2	13	N.A.
919.687-014	CLEANER II (TRANSP. VEHICLES)	0	0	0	104	32	5.11

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: BARBERING

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE SV03

- OCCUPATION -	CODE	1984	1990	<ESTIMATED 1984-1990>		
T I T L E		EMPLOY	EMPLOY	GROWTH	REPLAC	OPEN
BARBERS	55868002	70	77	1	5	6
TOTALS		70	77	1	5	6

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: BARBERING  
SCHOOL YEAR 1985-86

CLUSTER CODE SV03

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JTPA	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC		CORPS	IETARY	REHAB	*****
BARBERING/HAIRST	12.0402							52	52
BARBER	330.371-010				2				2
***TOTALS					2			52	54

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S I N F O R M A T I O N

STATEWIDE  
CLUSTER TITLE: BARBERING

MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE SV03

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
330.371-010	BARBER	0	0	0	41	6	N.A.



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D    R E P O R T

STATEWIDE  
CLUSTER TITLE: COSMETOLOGY  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE SV04

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
HAIRDRESSERS & COSMETOLOGIS	55868005	867	1079	35	44	79
MANICURISTS	55868008	3	4	0	0	0
TOTALS		870	1083	35	44	79

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: COSMETOLOGY  
SCHOOL YEAR 1985-86

CLUSTER CODE SV04

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
COSMETOLOGY	12.0403						358		358
MANICURIST	331.674-010							1	1
COSMETOLOGIST	332.271-010				1			3	4
COSMETOLOGIST AP	332.271-014							1	1
***TOTALS					1		358	5	364

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S   I N F O R M A T I O N

STATEWIDE  
CLUSTER TITLE: COSMETOLOGY

MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE SV04

CODE	TITLE	MIL APPREN	UI RETURN	CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
332.271-010	COSMETOLOGIST	0	0	0	227	42	3.93

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: CHILD CARE SERVICES & TEACHING

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE SV05

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
COLLEGE & UNIVERSITY FACULT	22631101	201	261	10	7	17
GRADUATE ASSISTANTS, TEACHI	22631117	668	615	-8	16	8
LIFE SCIENCES TEACHERS	22631202	251	258	1	8	9
CHEMISTRY TEACHERS	22631204	67	69	0	2	2
PHYSICS TEACHERS	22631206	48	49	0	2	2
ALL OTHER PHYS. SCIENCES TE	22631209	44	45	0	1	1
SOCIAL SCIENCES TEACHERS	22631210	194	199	1	6	7
HEALTH SPECIALTIES TEACHERS	22631212	38	39	0	1	1
ENGLISH & FOREIGN LANGUAGE	22631216	182	187	1	6	7
ART, DRAMA, & MUSIC TEACHER	22631218	140	144	1	5	6
ENGINEERING TEACHERS	22631222	103	106	1	3	4
MATHEMATICAL SCIENCES TEACH	22631224	105	108	1	3	4
COMPUTER SCIENCE TEACHERS	22631226	59	61	0	2	2
ALL OTHER POSTSECONDARY TEA	22631299	531	546	3	17	20
TEACHERS: PRESCHOOL	22631301	810	946	23	28	51
TEACHERS: ELEMENTARY SCHOOL	22631304	5408	6046	106	182	288
TEACHERS: SECONDARY SCHOOL	22631308	4110	4210	17	112	129
TEACHERS: VOCATIONAL EDUCAT	22631314	573	655	14	26	40
INSTRUCTORS: NONVOCATIONAL	22631317	554	632	13	23	36
INSTRUCTORS & COACHES: SPOR	22631321	917	1084	28	32	60
TEACHERS, INSTRUCTORS (NO D	22631399	1569	1644	13	87	100
VOCATIONAL & EDUC. COUNSELO	22631514	315	308	0	9	9
TEACHER'S AIDES, EDUC. ASSI	44353904	1900	2022	20	62	82
CHILD CARE WORKERS	55868038	448	507	10	26	36
TOTALS		19235	20741	255	666	921

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: CHILD CARE SERVICES & TEACHING  
SCHOOL YEAR 1985-86

CLUSTER CODE SV05

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
COUNSELOR, GUIDA	045.107-010				1			2	3
FACULTY MEMBER,	090.227-010							1	1
TEACHER, INDUSTR	091.221-010							1	1
TEACHER, SECONDA	091.227-010							2	2
TEACHER, ELEMENT	092.227-010				1			1	2
TEACHER, KINDERG	092.227-014				1				1
TEACHER, MENTALL	094.227-022				1				1
TEACHER, ADULT E	099.227-030				1				1
TEACHER AIDE	099.327-010							1	1
EDUCATION, GENER	13.0101			171					171
SCHOOL PSYCHOLOG	13.0801			5					5
SPECIAL EDUCATIO	13.1001			32					32
EDUCATION OF THE	13.1005			1					1
EDUCATION OF THE	13.1007			1					1
STUDENT COUNSELI	13.1101			75					75
ELEMENTARY EDUCA	13.1202			376					376
PRE-ELEMENTARY E	13.1204			10					10
SECONDARY EDUCAT	13.1205			25					25
AGRICULTURAL EDU	13.1301			19					19
ART EDUCATION	13.1302			8					8
BUSINESS EDUCATI	13.1303			38					38
ENGLISH EDUCATIO	13.1305			13					13
FOREIGN LANGUAGE	13.1306			3					3
INDUSTRIAL ARTS	13.1309			43					43
MATHEMATICS EDUC	13.1311			17					17
MUSIC EDUCATION	13.1312			29					29
PHYSICAL EDUCATI	13.1314			131					131
READING EDUCATIO	13.1315			5					5
SCIENCE EDUCATIO	13.1316			20					20
SOCIAL SCIENCE E	13.1317			9					9
SOCIAL STUDIES E	13.1318			11					11
TECHNICAL EDUCAT	13.1319			13					13
TRADE AND INDUST	13.1320			4					4
RESIDENCE SUPERV	187.167-186				2				2
HOME ECONOMICS,	19.0101			83					83
CHILD CARE & GUI	20.0201	3							3
ENGLISH, GENERAL	23.0101			109					109
CREATIVE WRITING	23.0501			12					12
SPEECH, DEBATE,	23.1001			76					76
TEACHER AIDE II	249.367-074				2			1	3
CHILD MONITOR	301.677-010				1			1	2
HOMEMAKER	309.354-010							1	1
CHILD-CARE ATTEN	355.674-010				3				3
ATTENDANT, CHILD	359.677-010				1			1	2
NURSERY SCHOOL A	359.677-018				6			1	7
***TOTALS		3		1339	20			13	1375

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S   I N F O R M A T I O N  
STATEWIDE  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: CHILD CARE SERVICES & TEACHING      CLUSTER CODE SV05

CODE	TITLE	MIL APPREN	UI RETURN	CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
045.107-010	COUNSELOR, GUIDANCE	0	0	0	314	67	8.90
075.121-010	NURSE, INSTRUCTOR	0	0	0	0	0	14.50
090.227-010	FACULTY MEMBER, COLLEGE OR UN	0	0	0	122	40	10.35
091.227-010	TEACHER, SECONDARY SCHOOL	0	0	0	670	2383	7.89
092.227-010	TEACHER, ELEMENTARY SCHOOL	0	0	0	698	3797	6.35
092.227-014	TEACHER, KINDERGARTEN	0	0	0	0	0	5.93
092.227-018	TEACHER, PRESCHOOL	0	0	0	0	0	7.76
094.227-018	TEACHER, HANDICAPPED STUDENTS	0	0	0	0	0	5.07
097.227-014	INSTRUCTOR, VOCATIONAL TRAINI	0	0	0	0	0	8.70
099.117-018	PRINCIPAL	0	0	0	0	0	10.56
099.327-010	TEACHER AIDE	0	0	0	0	0	4.99
153.227-014	INSTRUCTOR, PHYSICAL	0	0	0	0	0	5.33
153.227-018	INSTRUCTOR, SPORTS	0	0	0	0	0	7.62
159.124-010	COUNSELOR, CAMP	0	0	0	44	22	N.A.
187.167-186	RESIDENCE SUPERVISOR	0	0	0	25	15	8.89
249.367-074	TEACHER AIDE II	0	0	0	334	499	4.63
359.677-010	ATTENDANT, CHILDREN'S INSTITU	0	0	0	74	42	3.62
359.677-018	NURSERY SCHOOL ATTENDANT	0	0	0	181	117	4.48
359.677-026	PLAYROOM ATTENDANT	0	0	0	4	3	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: FOOD PRODUCTION

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE SV06

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
BAKERS, BREAD & PASTRY	55565021	534	582	8	21	29
COOKS: RESTAURANT	55565026	2653	3053	67	114	181
COOKS: INSTITUTION OR CAFET	55565028	1267	1342	13	52	65
COOKS: FAST FOOD & SHORT OR	55565030	2223	2461	40	74	114
FOOD PREPARATION WORKERS	55565038	3279	3670	65	123	188
COMB. FOOD PREPARATION, SER	55565041	3761	4674	152	169	321
FOOD SERVICE WORKERS (NO DE	55565099	1681	1832	25	106	131
BUTCHER, MEATCUTTER, SLAUGH	77489801	750	699	-8	23	15
BAKERS, MANUFACTURING	77489805	39	36	0	1	1
FOOD BATCHMAKERS	77489808	27	24	0	1	1
OTHER PRECISION FOOD, TOBAC	77489899	15	15	0	1	1
COOKING MACHINE OPER., FOOD	77592917	14	15	0	0	0
ROASTING, DRYING OPER., FOOD	77592921	21	19	0	1	1
DAIRY PROCESSING EQUIP. OPE	77592932	35	28	0	1	1
CANNERY WORKERS	77693935	4	5	0	0	0
MEAT, POULTRY, FISH CUTTERS	77693938	65	40	-3	1	-2
TOTALS		16368	18495	359	688	1047

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: FOOD PRODUCTION  
SCHOOL YEAR 1985-86

CLUSTER CODE SV06

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC	JTPA	CORPS	IETARY	REHAB *****
EXECUTIVE CHEF	187.161-010						1	1
CHEF/COOK	20.0403		14					14
FOOD SERVICE	20.0406		3					3
KITCHEN SUPERVIS	310.137-014				2			2
CHEF (HOTEL/REST	313.131-014				2			2
SOUS CHEF	313.131-026				1			1
COOK (HOTEL/REST	313.361-014				25		3	28
COOK, SHORT ORDE	313.361-022				3			3
COOK, SPECIALTY,	313.361-030				2			2
BAKER	313.381-010				1			1
BAKER, PIZZA	313.381-014				3			3
COOK, SHORT ORDE	313.671-010				1			1
COOK (INSTITUTIO	315.361-010				4		2	6
BUTCHER, MEAT	316.681-010				1			1
MEAT CUTTER	316.684-018				2			2
MEAT-CUTTER APPR	316.684-022				2			2
PANTRY GOODS MAK	317.684-014				1			1
COOK HELPER (HOT	317.687-010				3		1	4
KITCHEN HELPER (	318.687-010				20		3	23
FOOD ASSEMBLER,	319.484-010				2			2
FOOD-SERVICE WOR	355.677-010				1			1
CAKE DECORATOR	524.381-010				1			1
BUTCHER APPRENTI	525.381-010				1			1
BAKER APPRENTICE	526.381-014				2			2
DOUGHNUT MAKER	526.684-010				2			2
CUTLET MAKER, PO	529.686-022				5			5
DAIRY HELPER	529.686-026				1			1
BULK FILLER (FOO	529.687-022				1			1
BAKERY WORKER	929.686-010				1			1
***TOTALS			17		90		10	117



10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S    I N F O R M A T I O N

STATEWIDE  
CLUSTER TITLE: FOOD PRODUCTION

MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE SV06

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
313.131-014	CHEF (HOTEL/REST.)	0	0	0	51	8	5.67
313.361-014	COOK (HOTEL/REST.)	0	9	0	1692	771	4.58
313.361-022	COOK, SHORT ORDER 1	0	0	0	702	213	4.43
313.361-026	COOK, SPECIALTY	0	0	0	21	10	N.A.
313.361-030	COOK, SPECIALTY, FOREIGN FOOD	0	0	0	31	18	N.A.
313.381-010	BAKER	0	0	0	16	5	6.61
313.684-010	BAKER HELPER	0	0	0	4	1	N.A.
315.361-010	COOK (INSTITUTION)	0	4	0	423	125	5.69
316.684-010	BUTCHER, CHICKEN AND FISH	0	0	0	7	0	N.A.
316.684-018	MEAT CUTTER	5	0	0	235	27	8.37
317.684-014	PANTRY GOODS MAKER	0	0	0	48	19	N.A.
317.687-010	COOK HELPER (HOTEL/REST.)	0	0	0	269	103	4.17
318.687-010	KITCHEN HELPER (HOTEL/REST.)	0	0	0	1805	1029	3.82
355.677-010	FOOD-SERVICE WORKER, HOSPITAL	0	0	0	85	55	4.64
525.684-010	BONER, MEAT	0	0	0	0	0	5.73
525.684-030	FISH CLEANER	0	0	0	3	0	N.A.
526.381-010	BAKER	4	0	0	131	48	7.90
526.381-026	COOK, KETTLE	0	0	0	0	0	5.92
526.684-010	DOUGHNUT MAKER	0	0	0	14	13	N.A.
526.686-010	BAKER HELPER	0	0	0	46	28	N.A.
529.387-030	QUALITY CONTROL TECHN. (FOOD	0	0	0	0	0	6.85
529.686-014	CANNERY WORKER	0	0	0	10	0	N.A.
529.687-074	EGG CANDLER	0	0	0	3	1	N.A.
529.687-130	LABORER (SLAUGHT. & MEAT PACK	0	0	0	6	0	N.A.
929.686-010	BAKERY WORKER	0	0	0	36	4	N.A.

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S   I N F O R M A T I O N

STATEWIDE  
CLUSTER TITLE: FUNERAL SERVICES

MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE SV07

CODE	TITLE	MIL APPREN	UI RETURN	CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
187.167-030	DIRECTOR, FUNERAL	0	0	0	6	0	14.73
406.684-010	GRUNDSKEEPER, PARKS & GROUND	0	0	0	25	8	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: THEOLOGICAL SERVICES

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE SV08

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
CLERGY	22427502	274	311	6	14	20
DIRECTORS: RELIGIOUS ACTIV.	22427505	208	237	5	13	18
TOTALS		482	548	11	27	38

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: THEOLOGICAL SERVICES  
SCHOOL YEAR 1985-86

CLUSTER CODE SV08

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC	JTPA	CORPS	IETARY	REHAB *****
RELIGION	38.0201			2				2
RELIGIOUS EDUCAT	39.0401			6				6
THEOLOGICAL STUD	39.0601			1				1
***TOTALS				9				9

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D    R E P O R T

STATEWIDE

CLUSTER TITLE: SOCIAL WORK

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE SV09

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
SOCIAL SCIENTISTS (NO DETAI	22427199	74	86	2	3	5
SOCIAL WORKERS	22427310	1309	1429	20	43	63
WELFARE ELIGIBILITY WORKERS	44353502	262	271	2	11	13
SOCIAL SERVICE AIDES	55868034	152	167	3	5	8
TOTALS		1797	1953	27	62	89

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: SOCIAL WORK  
SCHOOL YEAR 1985-86

CLUSTER CODE SV09

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JTPA	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC		CORPS	IETARY	REHAB	*****
PROGRAM DIRECTOR	187.117-046					1			1
CASEWORKER	195.107-010					1		1	2
SOCIAL GROUP WOR	195.107-022					2			2
CASEWORK SUPERVI	195.137-010					1			1
GROUP WORKER	195.164-010					2			2
PROGRAM AIDE, GR	195.227-010					1			1
ELIGIBILITY WORK	195.267-010					2			2
CASE AIDE	195.367-010					1		1	2
HUMANITIES AND S	30.0401			15					15
SOCIAL WORK, GEN	44.0701			32					32
SOCIAL SCIENCES,	45.0101			1					1
SOCIOLOGY	45.1101			83					83
***TOTALS				131	11			2	144

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S I N F O R M A T I O N

STATEWIDE  
CLUSTER TITLE: SOCIAL WORK

MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE SV09

CODE	TITLE	MIL APPREN	UI RETURN	CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
054.067-014	SOCIOLOGIST	0	0	0	10	0	N.A.
187.117-046	PROGRAM DIRECTOR, GROUP WORK	0	0	0	0	0	9.37
195.107-010	CASEWORKER	0	0	0	66	67	7.95
195.107-022	SOCIAL GROUP WORKER	0	0	0	40	11	N.A.
195.107-030	SOCIAL WORKER, CLINICAL	0	0	0	0	0	7.12
195.117-010	ADMINISTRATOR, SOCIAL WELFARE	0	0	0	0	0	11.67
195.137-010	CASEWORK SUPERVISOR	0	0	0	0	0	7.10
195.164-010	GROUP WORKER	0	0	0	0	0	5.34
195.227-010	PROGRAM AIDE, GROUP WORK	0	0	0	0	0	4.89
195.367-010	CASE AIDE	0	0	0	0	0	5.64
309.354-010	HOMEMAKER	0	0	0	0	0	4.17

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D    R E P O R T

STATEWIDE

CLUSTER TITLE: FOOD SERVICES & MANAGEMENT

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE SV10

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
HOSTS & HOSTESSES	55565002	533	613	13	19	32
BARTENDERS	55565005	2980	3390	68	143	211
WAITERS & WAITRESSES	55565008	6936	7689	126	238	364
DINING ROOM & BARTENDER HEL	55565014	1117	1256	23	13	36
TOTALS		11566	12948	230	413	643



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: FOOD SERVICES & MANAGEMENT

SCHOOL YEAR 1985-86

CLUSTER CODE SV10

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
MANAGER, FOOD CO	185.167-022					1			1
MANAGER, FOOD SE	187.167-106					3			3
MANAGER LIQUOR E	187.167-126					2			2
FOOD PRODUCTION,	20.0401	15	6				22		43
FOOD & BEVERAGE	216.362-022							1	1
HOST/HOSTESS RES	310.137-010					1			1
COUNTER ATTENDAN	311.477-014					4			4
WAITER/WAITRESS,	311.477-018					1			1
WAITER/WAITRESS,	311.477-026					4			4
WAITER/WAITRESS,	311.477-030					5			5
WAITER/WAITRESS,	311.477-038							1	1
CAFETERIA ATTEND	311.677-010					1			1
DINING ROOM ATTE	311.677-018							1	1
BARTENDER	312.474-010					1		1	2
***TOTALS		15	6		23	22		4	70

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
ANALYSIS INFORMATION

STATEWIDE MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: FOOD SERVICES & MANAGEMENT CLUSTER CODE SV10

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
185.137-010	MANAGER, FAST FOOD SERVICES	0	0	0	0	0	7.40
187.167-106	MANAGER, FOOD SERVICE	0	0	0	547	47	6.29
187.167-126	MANAGER LIQUOR ESTABLISHMENT	0	0	0	0	0	6.51
222.684-010	MEAT CLERK (RETAIL STORE)	0	0	0	0	0	8.52
311.477-014	COUNTER ATTENDANT, LUNCHROOM/	0	0	0	1522	1114	3.47
311.477-018	WAITER/WAITRESS, BAR	0	0	0	0	0	3.84
311.477-030	WAITER/WAITRESS, INFORMAL	0	0	0	2102	745	3.39
311.477-038	WAITER/WAITRESS, TAKE OUT	0	0	0	14	1	N.A.
311.677-010	CAFETERIA ATTENDANT	0	0	0	40	13	N.A.
311.677-018	DINING ROOM ATTENDANT	0	0	0	0	0	3.49
312.474-010	BARTENDER	0	0	0	1602	324	5.21
319.137-010	FOOD-SERVICE SUPERVISOR (HOTE	0	0	0	28	8	6.96
319.474-010	FOUNTAIN SERVER (HOTEL/REST.)	0	0	0	2	0	3.29

# TECHNOLOGY CLUSTERS



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: POWER STATION OPERATORS

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE TC01

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
NUCLEAR ENGINEERS	22122117	3	3	0	0	0
FURNACE OPERATORS & TENDERS	77591935	25	18	0	0	0
FURNACE, KILN, OVEN, KETTLE	77592923	164	156	0	5	5
LOW PRESSURE BOILER OPERATO	77592926	159	154	0	6	6
AUXILIARY EQUIP. OPER., POW	77795023	95	80	-2	3	1
POWER DISTRIBUTORS & DISPAT	77795028	20	18	0	1	1
STATIONARY ENGINEERS	77795032	133	132	0	5	5
PLANT & SYSTEM OCC. (NO DET	77795099	292	301	2	7	9
TOTALS		891	862	0	27	27

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: POWER STATION OPERATORS  
SCHOOL YEAR 1985-86

CLUSTER CODE TC01

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
CONVENTIONAL ELE	47.0502			2					2
POWERHOUSE-MECHA	631.684-010				1				1
STATIONARY ENGIN	950.382-026				2				2
BOILER ROOM HELP	950.685-014							1	1
***TOTALS				2	3			1	6

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
ANALYSIS INFORMATION

STATEWIDE  
CLUSTER TITLE: POWER STATION OPERATORS  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE TC01

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
631.261-014	POWERHOUSE MECHANIC	2	3	0	0	0	N.A.
805.361-010	BOILERHOUSE MECHANIC	0	2	0	0	0	N.A.
950.382-010	BOILER OPERATOR	7	0	0	0	0	N.A.
952.362-018	HYDROELECTRIC STATION OPERATO	1	0	0	0	0	N.A.
952.382-018	POWER-PLANT OPERATOR	0	0	0	7	1	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D   R E P O R T

STATEWIDE

CLUSTER TITLE: CIVIL TECHNOLOGY & MATH SCIENCE  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE TC02

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
ENGINEERING, MATH., NAT.SCI	11313017	31	31	0	1	1
CIVIL ENGINEERS, INCL. TRAFF	22122121	644	669	4	17	21
ENGINEERS (NO DETAIL)	22122199	100	104	1	2	3
ARCHITECTS	22122301	213	233	3	7	10
SURVEYORS	22122309	379	400	4	12	16
CIVIL ENGINEERING TECHNICIA	22122502	391	409	3	7	10
ENGINEERING TECHN. (NO DETA	22122599	330	317	-1	6	5
STATISTICIANS	22325312	13	13	0	0	0
ALL OTHER MATH. SCIENTISTS	22325319	62	63	0	1	1
URBAN & REGIONAL PLANNERS	22427105	97	100	1	2	3
TOTALS		2260	2339	15	55	70

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: CIVIL TECHNOLOGY & MATH SCIENCE  
SCHOOL YEAR 1985-86

CLUSTER CODE TC02

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
SURVEYOR ASSISTA	018.167-034					1			1
DRAFTER, CARTOGR	018.261-010					1			1
ENGINEERING ANAL	020.067-010					1		1	2
GEOLOGIST	024.061-018							1	1
CITY, COMMUNITY,	04.0301			3					3
ENGINEERING, GEN	14.0101			38					38
CIVIL ENGINEERIN	14.0801			115					115
ENGINEERING MECH	14.1101			1					1
ARCHITECTURAL DE	15.0101			13					13
CIVIL TECHNOLOGY	15.0201		6						6
SURVEYING & MAPP	15.0203			8					8
MATHEMATICS, GEN	27.0101			93					93
STATISTICS	27.0501			3					3
GEOGRAPHY	45.0701			16					16
SURVEYOR HELPER	869.567-010							1	1
***TOTALS			6	290	3			3	302



10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S I N F O R M A T I O N

STATEWIDE MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: CIVIL TECHNOLOGY & MATH SCIENCE CLUSTER CODE TC02

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
001.061-010	ARCHITECT	0	0	0	0	0	14.71
005.061-014	CIVIL ENGINEER	0	0	0	77	28	15.39
005.061-034	STRUCTURAL ENGINEER (CONST.)	0	0	0	0	0	13.33
018.167-010	CHIEF OF PARTY (SURVEY)	0	0	0	25	1	N.A.
018.167-018	LAND SURVEYOR	0	0	0	0	0	9.59
018.167-034	SURVEYOR ASSISTANT, INSTRUMEN	0	2	0	0	0	10.05
020.067-014	MATHEMATICIAN	0	0	0	4	0	N.A.
869.567-010	SURVEYOR HELPER	0	0	0	0	0	4.29

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D   R E P O R T

STATEWIDE

CLUSTER TITLE: CHEMICAL TECHNOLOGY

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE TC03

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH   REPLAC   OPEN		
CHEMICAL ENGINEERS	22122114	82	92	2	1	3
CHEMISTS	22224105	152	149	0	3	3
CHEMICAL EQUIP. CONTROLLER/	77592935	83	89	1	2	3
CHEMICAL EQUIPMENT TENDER	77592938	38	36	0	1	1
CHEMICAL PLANT & SYSTEM OPE	77795008	34	32	0	1	1
TOTALS		389	398	3	8	11

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: CHEMICAL TECHNOLOGY  
SCHOOL YEAR 1985-86

CLUSTER CODE TC03

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
BIOCHEMIST	041.061-026							1	1
CHEMICAL ENGINEE	14.0701			67					67
CHEMISTRY, GENER	40.0501			43					43
GEOCHEMISTRY	40.0602			2					2
PAN HELPER (CHEM	551.585-018					1			1
STILL OPERATOR,	552.362-022					1			1
***TOTALS				112		2		1	115

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S   I N F O R M A T I O N  
STATEWIDE  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: CHEMICAL TECHNOLOGY  
CLUSTER CODE TC03

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
008.061-018	CHEMICAL ENGINEER	0	0	0	6	2	N.A.
008.261-010	CHEMICAL ENGINEERING TECHNICI	0	0	0	1	0	N.A.
022.061-010	CHEMICAL-LABORATORY CHIEF	0	0	0	22	11	12.40
022.261-010	CHEMIST	0	0	0	14	2	N.A.
029.261-010	LABORATORY TESTER	0	0	0	39	3	10.43
558.585-014	CHEMICAL OPERATOR II	0	0	0	2	0	N.A.
559.382-046	PILOT-CONTROL OPERATOR (CHEM.	0	0	0	13	1	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE  
CLUSTER TITLE: ENVIRONMENTAL CONTROL TECHNOLOGY  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE TC04

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
CONSTRUCTION, BUILDING INSP	22021908	170	175	1	8	9
SAFETY ENGINEERS, EXCEPT MI	22122132	28	28	0	1	1
PHYSICISTS & ASTRONOMERS	22224102	5	5	0	0	0
METEOROLOGISTS	22224108	13	13	0	0	0
WATER & WASTE TREAT. PLANT	77795002	375	378	1	15	16
WELL HEAD PUMPERS	77897911	203	172	-4	7	3
TOTALS		794	771	-2	31	29

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: ENVIRONMENTAL CONTROL TECHNOLOGY

SCHOOL YEAR 1985-86

CLUSTER CODE TC04

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
CONSERVATION & R	03.0201			12		1			13
ENVIRONMENTAL HE	14.1401			7					7
WASTE & WASTEWAT	15.0506			3					3
ENVIRONMENTAL CO	15.0599			1					1
OCCUPATIONAL SAF	15.0701			2					2
OCC-SAFETY & HEA	168.167-062							1	1
SAFETY INSPECTOR	168.264-014				1				1
BIOLOGICAL & PHY	30.0101			12					12
BIOLOGICAL & PHY	30.9999			57					57
PHYSICS, GENERAL	40.0801			21					21
TREATMENT-PLANT	630.281-038							1	1
PARTS SALVAGER	638.281-026				3				3
PUMP-STATION OPE	954.382-010				2				2
***TOTALS				115	6	1		2	124

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
ANALYSIS INFORMATION

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
005.061-030	SANITARY ENGINEER	0	0	0	0	0	14.81
012.167-058	SAFETY MANAGER	0	0	0	0	0	15.13
025.267-014	WEATHER OBSERVER	0	2	0	0	0	N.A.
199.384-010	DECONTAMINATOR	0	1	0	0	0	N.A.
551.485-010	WATER-TREATMENT-PLANT OPERATO	0	0	0	5	0	N.A.
869.687-038	INSPECTOR (MANUFACTURED BUILD	0	0	0	0	0	8.43
929.687-022	LABORER, SALVAGE (RECLAIMER)	0	0	0	29	24	N.A.
954.362-010	DITCH RIDER (WATERWORKS)	0	0	0	0	0	7.75
954.382-014	WATER-TREATMENT-PLANT OPERATO	0	1	0	16	2	N.A.
954.382-018	WATERSHED TENDER	0	0	0	0	0	7.70

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: MECHANICAL TECHNOLOGY

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE TC05

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
MECHANICAL ENGINEERS	22122135	206	214	1	4	5
MECHANICAL ENGINEERING TECH	22122511	12	13	0	0	0
MECHANICAL CONTROL INSTALLE	77285928	42	41	0	1	1
ALL OTHER PRECISION WORKERS	77489599	101	104	1	6	7
TOTALS		361	372	2	11	13



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: MECHANICAL TECHNOLOGY

SCHOOL YEAR 1985-86

CLUSTER CODE TC05

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC	JTPA	CORPS	IETARY	REHAB *****
ENGINEERING ASSI	007.161-018				1			1
MECHANICAL-ENGIN	007.161-026							1
MECHANICAL ENGIN	14.1901			120				120
ELECTROMECHANICA	15.0403	33						33
***TOTALS		33		120	1			2 156

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S   I N F O R M A T I O N

STATEWIDE  
CLUSTER TITLE: MECHANICAL TECHNOLOGY  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE TC05

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	OPEN	AVG. HRWAGE
007.061-014	MECHANICAL ENGINEER	0	0	0	25	9	16.67
007.161-026	MECHANICAL-ENGINEERING TECHNI	0	0	0	29	11	10.16

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D    R E P O R T

STATEWIDE

CLUSTER TITLE: INSTRUMENT TECHNOLOGY

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE TC06

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
PRECISION INSTRUMENT REPAIR	77285905	87	87	0	2	2
WATCHMAKERS	77285917	12	12	0	1	1
MUSICAL INSTRUMENT REPAIRER	77285921	34	37	1	3	4
LOCKSMITHS & SAFE REPAIRERS	77285923	1	1	0	0	0
PRECISION INSTRUMENT MAKERS	77489105	5	6	0	0	0
JEWELERS & SILVERSMITHS	77489123	72	84	2	5	7
PRECISION PRODUCTION (NO DE	77489999	185	186	0	6	6
GRINDING, BUFFING MACH. SET	77591114	21	22	0	1	1
PRECISION ASSEMBLERS (NO DE	77693199	50	56	1	1	2
TOTALS		467	491	4	19	23

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: INSTRUMENT TECHNOLOGY  
SCHOOL YEAR 1985-86

CLUSTER CODE TC06

PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
WATCH REPAIR	47.0408		5						5
JEWELER	700.281-010				1			2	3
JEWELER APPRENTI	700.281-014				1			1	2
ENGRAVER, PANTOG	704.382-010				1				1
CAMERA REPAIRER	714.281-014				1				1
***TOTALS			5		4			3	12

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S I N F O R M A T I O N

STATEWIDE MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: INSTRUMENT TECHNOLOGY CLUSTER CODE TC06

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. TOTAL OPEN	HRWAGE
700.281-010	JEWELER	0	0	0	0	0	7.31
710.281-026	INSTRUMENT MECHANIC	0	2	0	10	0	N.A.
710.681-014	CALIBRATOR I	0	1	0	0	0	N.A.
712.381-018	DENTAL-LABORATORY TECHNICIAN	0	0	0	20	2	8.49
712.664-010	DENTAL CERAMIST ASSISTANT	0	0	0	2	0	N.A.
712.681-018	FINISHER, DENTURE	0	0	0	1	0	N.A.
715.281-010	WATCH REPAIRER	0	0	0	1	0	N.A.
716.382-018	PRECISION-LENS GRINDER	0	0	0	8	2	N.A.
828.381-014	PRECISION ASSEMBLER	0	0	0	3	0	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: TEXTILE TECHNOLOGY

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE TC07

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
MENDERS: GARMENTS, LINENS	77285956	39	44	1	2	3
FABRIC & APPAREL PATTERNMAK	77489502	6	6	0	0	0
CUSTOM TAILORS & SEWERS	77489505	87	95	1	6	7
UPHOLSTERERS	77489508	125	148	4	5	9
SHOE & LEATHER, PRECISION	77489511	21	23	0	1	1
TEXTILE MACHINE OPERATORS	77592705	3	3	0	0	0
SEWING MACH. OPERATOR: GARM	77592717	66	67	0	3	3
SEWING MACH. OPER.: NON-GAR	77592721	111	125	2	4	6
SHOE SEWING MACHINE OPERATO	77592723	17	17	0	1	1
LAUNDRY, DRYCLEANING MACH.	77592726	569	617	8	26	34
PRESSING MACH. OPERATOR: TE	77592728	117	121	1	4	5
PRESSERS, HAND	77693921	19	20	0	1	1
SEWERS, HAND	77693923	7	7	0	0	0
CUTTERS & TRIMMERS, HAND	77693926	7	9	0	0	0
TOTALS		1194	1302	17	53	70

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: TEXTILE TECHNOLOGY  
SCHOOL YEAR 1985-86

CLUSTER CODE TC07

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
LAUNDRY WORKER I	361.684-014					1			1
DRY CLEANER	362.382-014					2			2
LEATHER CLEANER	362.684-026					1			1
SILK FINISHER	363.681-010					1			1
SELF-SERVICE-LAU	369.677-010							1	1
SHOE & BOOT REPA	48.0304						4		4
PRESS OPERATOR (	583.685-086					2			2
PATCHER	585.687-022					1			1
KNITTING MACHINE	685.665-014							1	1
SUPERVISOR (TEXT	692.130-018							1	1
CANVAS WORKER	739.381-010					1			1
PATTERN GRADER-C	781.381-022					1			1
SADDLE MAKER	783.381-026					1		1	2
LEATHER WORKER	783.684-026					5			5
CUSTOM TAILOR	785.261-014					1			1
SEWING-MACHINE 0	787.682-042					11			11
SEWING-MACHINE 0	787.682-046					5			5
SEWING-MACHINE 0	787.682-062							1	1
SHOEMAKER, CUSTO	788.381-014							1	1
***TOTALS						33	4	6	43

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S   I N F O R M A T I O N  
STATEWIDE  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: TEXTILE TECHNOLOGY  
CLUSTER CODE TC07

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
302.687-010	IRONER	0	0	0	0	2	N.A.
361.137-010	SUPERVISOR, LAUNDRY	0	0	0	0	0	7.04
361.665-010	WASHER, MACHINE	0	0	0	4	0	N.A.
361.684-014	LAUNDRY WORKER I	0	0	0	0	0	4.78
361.685-018	LAUNDRY WORKERS	0	0	0	53	28	N.A.
361.687-014	CLASSIFIER	0	0	0	3	0	N.A.
361.687-018	LAUNDRY LABORER	0	0	0	117	27	N.A.
363.681-010	SILK FINISHER	0	0	0	0	0	4.86
363.682-018	PRESSER, MACHINE	0	0	0	10	3	N.A.
363.684-018	HAT BLOCKER	0	0	0	3	5	N.A.
639.281-018	SEWING MACHINE REPAIRER	0	0	0	3	1	N.A.
685.665-014	KNITTING MACHINE OPERATOR	0	0	0	3	0	N.A.
689.682-010	LOOPER	0	0	0	2	0	N.A.
690.682-082	STITCHER, STANDARD MACHINE	0	0	0	1	0	N.A.
780.381-018	FURNITURE UPHOLSTERER	0	0	0	22	6	6.00
780.681-010	UPHOLSTERER, INSIDE	0	0	0	5	1	N.A.
780.682-018	UPHOLSTERY SEWER (ANY IND.)	0	0	0	0	1	N.A.
781.687-010	ASSEMBLER (GARMENT, GLOVE & M	0	0	0	2	0	N.A.
782.684-058	SEWER, HAND	0	0	0	11	10	N.A.
783.381-026	SADDLE MAKER	1	0	0	0	0	N.A.
783.682-014	SEWING-MACHINE OPERATOR	0	0	0	1	6	N.A.
785.261-010	ALTERATION TAILOR	0	0	0	28	18	4.48
785.361-010	DRESSMAKER	0	0	0	1	2	N.A.
787.682-046	SEWING-MACHINE OPERATOR	0	0	0	106	36	4.86
788.684-054	INKER (BOOT & SHOE)	0	0	0	1	0	N.A.
920.687-018	BAGGER (CLEANERS/LAUNDRY)	0	0	0	0	0	3.98



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: AVIATION

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE TC08

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH    REPLAC    OPEN		
AERONAUTICAL & ASTRO. ENGIN	22122102	24	25	0	0	0
AIR TRAFFIC CONTROLLERS	22939002	129	134	1	3	4
AIRCRAFT MECHANICS	77285320	469	491	4	15	19
AIRCRAFT PILOTS, FLIGHT ENG	77897702	156	154	0	2	2
TOTALS		778	804	5	20	25

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: AVIATION  
SCHOOL YEAR 1985-86

CLUSTER CODE TC08

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
AIRPLANE PILOT,	196.263-014					1			1
AIRCRAFT MECHANI	47.0607		57						57
AIRCRAFT MECHANI	47.0608						50		50
AIRPLANE PILOTIN	49.0102						10		10
AIRPLANE PILOTIN	49.0107						20		20
AIR TRANSPORTATI	49.0199						27		27
AIRFRAME-&-POWER	621.281-014				2				2
AVIONICS TECHNIC	823.281-010							2	2
AIRCRAFT MECHANI	862.381-010							1	1
***TOTALS			57		3		107	3	170

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S I N F O R M A T I O N

STATEWIDE MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: AVIATION CLUSTER CODE TC08

CODE	TITLE	MIL APPREN	RETURN	UI CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
184.117-038	MANAGER, FLIGHT OPERATIONS	0	1	0	0	0	N.A.
193.162-018	AIR-TRAFFIC CONTROL SPECIALIS	0	3	0	6	0	N.A.
196.263-014	AIRPLANE PILOT, COMMERCIAL	0	2	0	0	0	12.41
238.367-010	GATE AGENT	0	1	0	0	0	N.A.
248.387-010	FLIGHT OPERATIONS SPECIALIST	0	1	0	0	0	N.A.
352.367-010	AIRPLANE-FLIGHT ATTENDANT	0	0	0	7	0	N.A.
621.261-018	FLIGHT ENGINEER	0	0	0	2	0	N.A.
621.281-014	AIRFRAME-&-POWER-PLANT MECHAN	1	25	0	74	2	N.A.
621.381-014	MECHANIC, AIRCRAFT ACCESSORIE	0	0	0	5	0	N.A.
806.381-018	AIRCRAFT MECHANIC, RIGGING &	0	0	0	1	0	N.A.
806.381-022	ASSEMBLER, AIRCRAFT POWER PLA	0	0	0	1	0	N.A.
806.381-026	ASSEMBLER, AIRCRAFT, STRUCTUR	0	0	0	2	0	N.A.
807.261-010	AIRCRAFT BODY REPAIRER	0	2	0	0	0	N.A.
823.281-010	AVIONICS TECHNICIAN	0	11	0	0	0	N.A.
862.381-010	AIRCRAFT MECHANIC, PLUMBING &	0	1	0	16	3	N.A.
912.662-010	IN-FLIGHT REFUELING OPERATOR	0	1	0	0	0	N.A.

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: INDUSTRIAL ENGINEERING

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE TC09

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
INDUSTRIAL ENGINEERS, EXC.	22122128	48	49	0	1	1
TOTALS		48	49	0	1	1

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE

CLUSTER TITLE: INDUSTRIAL ENGINEERING

SCHOOL YEAR 1985-86

CLUSTER CODE TC09

- PROGRAM -	CODE	PUBLIC	VOC	HIGHER	JOB	PROPR	VOC	TOTAL
TITLE		SECOND	TECH	EDUC	JTPA	CORPS	IETARY	REHAB *****
INDUSTRIAL ENGIN	14.1701			24				24
INDUSTRIAL PRODU	15.0699			7				7
***TOTALS				31				31

10/01/87

MONTANA OCCUPATIONAL INFORMATION SYSTEM  
ANALYSIS INFORMATION

STATEWIDE  
CLUSTER TITLE: INDUSTRIAL ENGINEERING

MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER CODE TC09

CODE	TITLE	MIL APPREN	UI RETURN	TOTAL CLAIM	TOTAL APPS	AVG. OPEN	HRWAGE
012.167-030	INDUSTRIAL ENGINEER	0	0	0	0	0	13.11
142.061-026	INDUSTRIAL DESIGNER	0	0	0	0	0	11.89

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
D E M A N D     R E P O R T

STATEWIDE

CLUSTER TITLE: NATURAL RESOURCES TECHNOLOGY

MONTANA DEPARTMENT OF LABOR AND INDUSTRY

CLUSTER CODE TC10

- OCCUPATION - T I T L E	CODE	1984 EMPLOY	1990 EMPLOY	<ESTIMATED 1984-1990> GROWTH	REPLAC	OPEN
MINING, QUARRY, OIL DRILL M	11515021	180	173	0	6	6
METALLURGISTS & MATERIAL EN	22122105	33	40	1	1	2
MINING ENGINEERS, INCL. SAF	22122108	107	138	5	4	9
PETROLEUM ENGINEERS	22122111	35	39	1	1	2
GEOPHYSICISTS	22224111	295	337	7	7	14
PHYSICAL SCIENTISTS (NO DET	22224199	117	121	1	4	5
PETROLEUM TECHNICIANS	22224511	24	22	0	0	0
DERRICK OPERATORS, OIL & GA	77387914	130	104	-3	2	-1
SERVICE UNIT OPERATORS	77387917	444	357	-14	8	-6
EXTRACTIVE WORKERS (NO DETA	77387999	168	167	0	4	4
PETROLEUM REFINERY OPERATOR	77795014	171	160	-1	6	5
GAUGERS	77795017	7	8	0	0	0
OIL PUMPERS, EXCEPT WELL HE	77897908	88	75	-1	3	2
TOTALS		1799	1741	-4	46	42

10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
S U P P L Y   R E P O R T

STATEWIDE  
CLUSTER TITLE: NATURAL RESOURCES TECHNOLOGY  
SCHOOL YEAR 1985-86

CLUSTER CODE TC10

- PROGRAM - TITLE	CODE	PUBLIC SECOND	VOC TECH	HIGHER EDUC	JTPA	JOB CORPS	PROPR IETARY	VOC REHAB	TOTAL *****
RENEWABLE NATURA	03.0101			12					12
GEOLOGICAL ENGIN	14.1501			23					23
GEOPHYSICAL ENGI	14.1601			10					10
METALLURGICAL EN	14.2001			17					17
MINING & MINERAL	14.2101			26					26
PETROLEUM ENGINE	14.2501			108					108
GEOLOGY	40.0601			49					49
EARTH SCIENCE	40.0703			60					60
SAMPLER (MINERAL	579.484-010					1		1	2
DRILLER HELPER	930.666-010					1			1
DERRICK WORKER,	930.683-018							1	1
***TOTALS				305	2			2	309



10/01/87  
MONTANA OCCUPATIONAL INFORMATION SYSTEM  
A N A L Y S I S   I N F O R M A T I O N  
STATEWIDE  
MONTANA DEPARTMENT OF LABOR AND INDUSTRY  
CLUSTER TITLE: NATURAL RESOURCES TECHNOLOGY  
CLUSTER CODE TC10

CODE	TITLE	MIL APPREN	UI RETURN	CLAIM	TOTAL APPS	TOTAL OPEN	AVG. HRWAGE
011.061-010	FOUNDRY METALLURGIST	0	0	0	0	0	16.34
011.261-010	METALLURGICAL TECHNICIAN	0	0	0	1	0	N.A.
024.061-018	GEOLOGIST	0	0	0	0	0	15.34
024.061-022	GEOLOGIST, PETROLEUM	0	0	0	0	0	29.00
181.167-014	SUPERINTENDENT, DRILLING & PR	0	0	0	0	0	17.59
549.260-010	REFINERY OPERATOR	0	0	0	13	6	N.A.
869.684-046	ROUSTABOUT (PETROL. PROD.)	0	0	0	0	0	7.88
914.382-014	PUMPER-GAGER (PETROL.)	0	1	0	0	0	N.A.
914.384-010	GAGER (PETROL.)	0	2	0	0	0	13.08
930.130-010	TOOL PUSHER (PETROL.)	0	0	0	0	0	10.74
930.382-018	PROSPECTING DRILLER (PETROL.)	0	0	0	0	0	10.56
930.382-026	ROTARY DRILLER (PETROL.)	0	0	0	0	0	14.33
930.683-018	DERRICK WORKER, WELL SERVICE	0	0	0	0	0	8.96
930.684-014	FLOOR WORKER, WELL SERVICE (P	0	0	0	0	0	8.65
931.261-010	BLASTER (MINING/QUARRYING)	0	0	0	0	0	16.34
939.131-014	SUPERVISOR, PRODUCTION (PETRO	0	0	0	0	0	14.97

ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES

CLUSTER #	CODE	TITLE	PAGE
OF01	164.167-010	ACCOUNT EXECUTIVE	120
OF01	160.167-010	ACCOUNTANT	120
OF01	160.162-010	ACCOUNTANT, TAX	120
OF01	22021114	ACCOUNTANTS & AUDITORS	119
OF01	06.0201	ACCOUNTING	120
OF01	216.382-010	ACCOUNTING CLERK, DATA PROCESSING	120
OF01	07.0101	ACCOUNTING, BOOKKEEPING, & RELATED, GENERAL	120
MK05	22325313	ACTUARIES	112
HE06	079.271-010	ACUPUNCTURIST	77
OF02	44353123	ADJUSTMENT CLERKS	122
OF02	169.167-010	ADMINISTRATIVE ASSISTANT	123
OF02	219.362-010	ADMINISTRATIVE CLERK	123
OF05	169.167-014	ADMINISTRATIVE SECRETARY	132
OF06	11313014	ADMINISTRATIVE SERVICES MANAGER	134
GX01	44353908	ADVERTISING CLERKS	45
TC08	22122102	AERONAUTICAL & ASTRO. ENGINEERS	231
AG05	66979999	AGRIC., FOREST, FISH (NO DETAIL)	37
AG01	22224305	AGRICULTURAL & FOOD SCIENTISTS	26
AG02	01.0102	AGRICULTURAL BUSINESS	28
AG02	01.0101	AGRICULTURAL BUSINESS & MANAGEMENT, GENERAL	30
AG02	01.0199	AGRICULTURAL BUSINESS & MGMNT, OTHER	30
AG02	01.0103	AGRICULTURAL ECONOMICS	30
SV05	13.1301	AGRICULTURAL EDUCATION	195
AG03	013.061-010	AGRICULTURAL ENGINEER	32
AG03	14.0301	AGRICULTURAL ENGINEERING	32
AG03	01.0201	AGRICULTURAL MECHANICS, GENERAL	32
AG03	01.0204	AGRICULTURAL POWER MACHINERY	32
AG01	01.0301	AGRICULTURAL PRODUCTION, GENERAL	27
AG02	02.0101	AGRICULTURAL SCIENCES, GENERAL	30
AG02	02.0402	AGRONOMY	30
SK06	620.281-010	AIR CONDITIONING MECHANIC (AUTO.)	170
SK04	77387702	AIR HAMMER OPERATORS	163
TC08	22939002	AIR TRAFFIC CONTROLLERS	231
TC08	49.0199	AIR TRANSPORTATION, OTHER	232
SK02	706.684-010	AIR-CONDITIONING-COIL ASSEMBLER	158
TC08	862.381-010	AIRCRAFT MECHANIC, PLUMBING & HYDRAULICS	232
TC08	77285320	AIRCRAFT MECHANICS	231
TC08	47.0607	AIRCRAFT MECHANICS, AIRFRAME	232
TC08	47.0608	AIRCRAFT MECHANICS, POWERPLANT	232
TC08	77897702	AIRCRAFT PILOTS, FLIGHT ENGINEERS	231
SK08	77693102	AIRCRAFT STRUCTURE ASSEMBLY	175
TC08	621.281-014	AIRFRAME-&-POWER-PLANT MECHANIC	232
TC08	196.263-014	AIRPLANE PILOT, COMMERCIAL	232
TC08	49.0102	AIRPLANE PILOTING & NAVIGATION (COMMERCIAL)	232
TC08	49.0107	AIRPLANE PILOTING (PRIVATE)	232
GX04	77592519	ALL OTH PRINTING PRESS SET/OP	54
SK01	77285799	ALL OTHER ELECTRICAL MECHANICS	154
SK07	77592997	ALL OTHER MACHINE SETTERS/OPER.	172
SK07	77285119	ALL OTHER MACHINERY MECHANICS	172
OF06	22021999	ALL OTHER MANAGEMENT SUPPORT OCCUPATIONS	134
TC02	22325319	ALL OTHER MATH. SCIENTISTS	213
SV05	22631209	ALL OTHER PHYS. SCIENCES TEACHERS	194
SV05	22631299	ALL OTHER POSTSECONDARY TEACHERS	194

ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
GX04	77489799	ALL OTHER PRECISION PRINTING	54
TC05	77489599	ALL OTHER PRECISION WORKERS	222
AG05	66373099	ALL OTHER TIMBER CUTTING WORKERS	37
SV02	77897899	ALL OTHER TRANSPORTATION	185
PS01	55666023	AMBULANCE DRIVER, ATTENDANTS	144
LA02	05.0202	AMERICAN INDIAN STUDIES	92
LA02	05.0102	AMERICAN STUDIES	92
MK04	55868014	AMUSEMENT & RECREATION ATTENDANT	109
AG07	66979017	ANIMAL CARETAKERS, EXCEPT FARM	42
AG07	412.674-010	ANIMAL KEEPER	43
AG02	02.0201	ANIMAL SCIENCES, GENERAL	30
GX05	159.147-010	ANNOUNCER	58
GX05	22834017	ANNOUNCERS	57
LA02	45.0201	ANTHROPOLOGY	92
SK02	827.261-010	APPLIANCE SERVICE REPRESENTATIVE	158
MK01	33343011	APPRAISERS: REAL ESTATE	98
TC02	22122301	ARCHITECTS	213
TC02	15.0101	ARCHITECTURAL DESIGN & CONSTRUCTION TECHNOLOG	214
GX02	04.0201	ARCHITECTURE	49
SV05	13.1302	ART EDUCATION	195
SV05	22631218	ART, DRAMA, & MUSIC TEACHERS	194
GX03	22834035	ARTISTS & RELATED WORKERS	51
SK04	869.684-010	ASSEMBLER	164
MK03	723.684-010	ASSEMBLER (ELEC. EQUIP.)	105
MK03	732.684-014	ASSEMBLER (SPORTS EQUIP)	105
SK06	806.684-018	ASSEMBLER, CAMPER	170
SK07	706.684-018	ASSEMBLER, PRODUCT	173
SK08	809.681-010	ASSEMBLER, UNIT	176
SK08	77693956	ASSEMBLERS & FABRICATORS	175
SK08	77693999	ASSEMBLERS, HAND WORK (NO DETAIL)	175
MK01	22021917	ASSESSORS	98
LA01	159.207-010	ASTROLOGER	89
MK04	22834058	ATHLETE, COACH, UMPIRE & RELATED	109
OF02	219.362-014	ATTENDANCE CLERK	123
SV05	359.677-010	ATTENDANT, CHILDREN'S INSTITUTION	195
AG02	08.0701	AUCTIONEERING	30
SK01	729.281-010	AUDIO-VIDEO REPAIRER	155
GX03	22631508	AUDIO-VISUAL SPECIALISTS	51
SK06	77285301	AUTO & MOTORCYCLE MECHANICS	169
SK06	620.261-010	AUTOMOBILE MECHANIC	170
SK06	807.381-010	AUTOMOBILE-BODY REPAIRER	170
SK06	620.261-012	AUTOMOBILE-MECHANIC APPRENTICE	170
SK06	620.684-014	AUTOMOBILE-MECHANIC HELPER	170
SK06	620.261-018	AUTOMOBILE-REPAIR-SERVICE ES	170
SK06	915.467-010	AUTOMOBILE-SERVICE-STATION ATTENDANT	170
SK06	780.381-014	AUTOMOBILE-UPHOLSTERER APPRENTICE	170
SK06	47.0603	AUTOMOTIVE BODY REPAIR	170
SK06	77285305	AUTOMOTIVE BODY, RELATED REPAIRER	169
SK06	47.0604	AUTOMOTIVE MECHANICS	170
SK06	620.281-014	AUTOMOTIVE TECHNICIAN, EXHAUST EMISSION	170
SK06	15.0803	AUTOMOTIVE TECHNOLOGY	170
TC01	77795023	AUXILIARY EQUIP. OPER., POWER	210
TC08	823.281-010	AVIONICS TECHNICIAN	232

ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
MK04	55868023	BAGGAGE PORTERS & BELLHOPS	109
MK03	920.687-014	BAGGER (GROCERY)	105
PS03	55363023	BAILIFFS	150
SV06	313.381-010	BAKER (HOTEL/REST.)	198
SV06	526.381-014	BAKER APPRENTICE	198
SV06	313.381-014	BAKER, PIZZA	198
SV06	55565021	BAKERS, BREAD & PASTRY	197
SV06	77489805	BAKERS, MANUFACTURING	197
SV06	929.686-010	BAKERY WORKER	198
MK06	06.0301	BANKING & FINANCE	116
SV03	330.371-010	BARBER	189
SV03	12.0402	BARBERING/HAIRSTYLING	189
SV03	55868002	BARBERS	188
SV10	312.474-010	BARTENDER	207
SV10	55565005	BARTENDERS	206
SK06	77285951	BICYCLE REPAIRERS	169
OF01	44353508	BILL & ACCOUNT COLLECTORS	119
OF02	214.382-014	BILLING TYPIST	123
OF01	44555344	BILLING, COST & RATE CLERKS	119
GX04	77592546	BINDERY MACHINE OPERATOR	54
GX04	77592525	BINDERY MACHINE SETTER/OPERATOR	54
TC03	041.061-026	BIOCHEMIST	217
HE03	26.0201	BIOCHEMISTRY & BIOPHYSICS	68
TC04	30.0101	BIOLOGICAL & PHYSICAL SCIENCES	220
TC04	30.9999	BIOLOGICAL & PHYSICAL SCIENCES	220
HE03	22224308	BIOLOGICAL SCIENTISTS	67
HE03	26.0101	BIOLOGY, GENERAL	68
SK04	77387905	BLASTERS & EXPLOSIVES WORKERS	163
SK04	863.664-010	BLOWER INSULATOR	164
OF06	77081001	BLUE-COLLAR WORKERS SUPERVISORS	134
TC01	950.685-014	BOILER ROOM HELPER	211
SK08	77489135	BOILERMAKERS	175
GX04	77489711	BOOKBINDERS	54
OF01	210.382-014	BOOKKEEPER I	120
OF01	210.382-018	BOOKKEEPER II	120
OF01	44555338	BOOKKEEPING & ACCOUNTING CLERKS	119
OF01	210.382-026	BOOKKEEPING-MACHINE OPERATOR 2	120
AG01	26.0301	BOTANY, GENERAL	27
SK08	617.360-010	BRAKE OPERATOR 1 (METALWORKING)	176
SK06	620.281-026	BRAKE REPAIRER	170
SK06	579.665-010	BRAKE-LINE FINISHER, ASBESTOS	170
SK04	77387302	BRICK MASONS	163
SK04	861.381-022	BRICKLAYER APPRENTICE	164
SK04	46.0101	BRICKMASONRY, STONEMASONRY, & TILE SETTING	164
GX05	22834014	BROADCAST NEWS ANALYSTS	57
GX05	22834028	BROADCAST TECHNICIANS	57
OF02	44353128	BROKERAGE CLERKS	122
MK01	33343005	BROKERS: REAL ESTATE	98
SK07	705.684-014	BUFFER I	173
SV01	46.0401	BUILDING & PROPERTY MAINTENANCE	183
SV01	55767099	BUILDING SERVICE (NO DETAIL)	182
SV06	529.687-022	BULK FILLER (FOOD PROD.)	198
SK05	850.683-010	BULLDOZER OPERATOR I	167

ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
SV02	913.463-010	BUS DRIVER	186
SV02	77897108	BUS DRIVERS	185
SV02	77897111	BUS DRIVERS: SCHOOL	185
SK05	77285311	BUS, TRUCK, HEAVY EQUIP. MECHANIC	166
OF06	06.0101	BUSINESS & MANAGEMENT, GENERAL	135
OF06	06.0401	BUSINESS ADMINISTRATION & MANAGEMENT, GENERAL	135
OF06	06.0499	BUSINESS ADMINISTRATION & MANAGEMENT, OTHER	135
OF07	07.0302	BUSINESS COMPUTER & CONSOLE OPERATIONS	138
OF07	07.0303	BUSINESS DATA ENTRY EQUIPMENT OPERA	138
OF07	07.0301	BUSINESS DATA PROCESSING & RELATED PROG, GENE	138
OF07	07.0399	BUSINESS DATA PROCESSING & RELATED PROG, OTHE	138
OF08	07.0305	BUSINESS DATA PROGRAMMING	141
MK06	06.0501	BUSINESS ECONOMICS	116
SV05	13.1303	BUSINESS EDUCATION	195
OF04	187.167-018	BUSINESS REP., LABOR UNION	129
MK06	189.157-010	BUSINESS-OPPORTUNITY-&-PROPERTY-INVEST	116
SV06	525.381-010	BUTCHER APPRENTICE	198
SV06	316.681-010	BUTCHER, MEAT	198
SV06	77489801	BUTCHER, MEATCUTTER, SLAUGHTERER	197
SK04	660.280-010	CABINETMAKER	164
SK04	662.280-010	CABINETMAKER (WOODWORKING)	164
SK04	77489311	CABINETMAKERS & BENCH CARPENTERS	163
SK09	829.361-010	CABLE SPLICER (UTILITY)	179
SV10	311.677-010	CAFETERIA ATTENDANT	207
SV06	524.381-010	CAKE DECORATOR	198
OF01	44656002	CALCULATING MACHINE OPERATORS	119
TC06	714.281-014	CAMERA REPAIRER	226
SV06	77693935	CANNERY WORKERS	197
TC07	739.381-010	CANVAS WORKER	229
SK06	622.684-014	CAR-REPAIRER HELPER	170
SV02	915.667-010	CAR-WASH ATTENDANT, AUTOMATIC	186
SV02	915.137-010	CAR-WASH SUPERVISOR	186
SV02	222.367-010	CARGO CHECKER	186
SK04	860.381-022	CARPENTER	164
SK04	860.381-026	CARPENTER APPRENTICE	164
SK04	77387110	CARPENTERS	163
SK04	46.0201	CARPENTRY	164
SK04	77387602	CARPET INSTALLERS	163
SK04	864.381-010	CARPET LAYER	164
SV09	195.367-010	CASE AIDE	204
SV09	195.107-010	CASEWORKER	204
SV09	195.137-010	CASEWORKER SUPERVISOR	204
OF01	211.362-010	CASHIER I (CLERICAL)	120
OF01	211.462-010	CASHIER II	120
OF01	211.462-014	CASHIER-CHECKER (RETAIL TRADE)	120
OF01	33949023	CASHIERS	119
SK04	77387105	CEILING TILE INSTALLERS	163
SK07	77592956	CEMENTING, GLUING MACHINE OPER.	172
SK09	77285502	CENTRAL OFFICE & PBX INSTALLERS (UTILITY)	178
OF03	44757108	CENTRAL OFFICE OPERATORS	125
SK09	822.361-014	CENTRAL-OFFICE INSTALLER (TELEPHONE)	179
OF03	235.462-010	CENTRAL-OFFICE OPERATOR	126
SV01	381.687-010	CENTRAL-SUPPLY WORKER (HOSPITAL)	183

ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
SV06	313.131-014	CHEF (HOTEL/REST.)	198
SV06	20.0403	CHEF/COOK	198
TC03	14.0701	CHEMICAL ENGINEERING	217
TC03	22122114	CHEMICAL ENGINEERS	216
TC03	77592935	CHEMICAL EQUIP. CONTROLLER/OPER.	216
TC03	77592938	CHEMICAL EQUIPMENT TENDER	216
TC03	77795008	CHEMICAL PLANT & SYSTEM OPER.	216
SV05	22631204	CHEMISTRY TEACHERS	194
TC03	40.0501	CHEMISTRY, GENERAL	217
TC03	22224105	CHEMISTS	216
SV05	20.0201	CHILD CARE & GUIDANCE MGMT & SERV, GENERAL	195
SV05	55868038	CHILD CARE WORKERS	194
SV05	301.677-010	CHILD MONITOR	195
SV05	355.674-010	CHILD-CARE ATTENDANT, SCHOOL	195
SV01	891.687-010	CHIMNEY SWEEP	183
HE06	079.364-010	CHIROPRACTOR ASSISTANT	77
AG05	66373005	CHOKE SETTERS	37
AG05	564.687-010	CHOPPER (WOOD PRODUCTS)	38
AG05	451.687-010	CHRISTMAS-TREE FARM WORKER	38
TC02	04.0301	CITY, COMMUNITY, & REGIONAL PLANNING	214
TC02	14.0801	CIVIL ENGINEERING	214
TC02	22122502	CIVIL ENGINEERING TECHNICIANS	213
TC02	22122121	CIVIL ENGINEERS, INCL. TRAFFIC	213
TC02	15.0201	CIVIL TECHNOLOGY	214
MK05	22021921	CLAIMS EXAMINERS: INSURANCE	112
OF04	22021502	CLAIMS TAKERS, UNEMPLOY. BENEFITS	128
OF02	206.387-010	CLASSIFICATION CLERK	123
SV02	919.687-014	CLEANER II (TRANSP. VEHICLES)	186
SV01	381.687-014	CLEANER, COMMERCIAL OR INSTITUTIONAL	183
SV01	323.687-010	CLEANER, HOSPITAL	183
SV01	323.687-014	CLEANER, HOUSEKEEPING	183
SV01	381.687-018	CLEANER, INDUSTRIAL	183
SV08	22427502	CLERGY	201
OF02	44959999	CLERICAL & SUPPORT (NO DETAIL)	122
OF02	209.562-010	CLERK, GENERAL	123
OF02	07.0702	CLERK-TYPIST	123
OF02	203.362-010	CLERK-TYPIST	123
SK07	77592953	COATING, PAINTING MACH. OPER.	172
OF02	209.387-010	CODING CLERK	123
SK07	77693908	COIL WINDERS, TAPERS, FINISHERS	172
SK01	77285947	COIN & VENDING MACHINE SERVICERS	154
OF03	241.357-010	COLLECTION CLERK	126
SV05	22631101	COLLEGE & UNIVERSITY FACULTY	194
SV06	55565041	COMB. FOOD PREPARATION, SERVICE	197
SK07	77591508	COMBINATION MACH. TOOL OPER., M/P	172
SK07	77591505	COMBINATION MACH. TOOL SET/OP, M/P	172
OF06	11515023	COMMUNICATION, TRANSP., UTIL. MGRS.	134
GX05	09.0101	COMMUNICATIONS, GENERAL	58
LA01	23.0301	COMPARATIVE LITERATURE	89
OF02	209.387-014	COMPILER	123
OF04	22021911	COMPLIANCE OFFICERS & INSPECTORS	128
OF08	11.0101	COMPUTER & INFORMATION SYSTEMS, GENERAL	141
OF07	213.362-010	COMPUTER OPERATOR (CLERICAL)	138

ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
OF08	44656011	COMPUTER OPERATORS, EXC. PERIPH.	140
OF08	22325104	COMPUTER PROGRAMMERS & AIDES	140
OF08	11.0201	COMPUTER PROGRAMMING	141
SV05	22631226	COMPUTER SCIENCE TEACHERS	194
OF08	15.0301	COMPUTER TECHNOLOGY	141
OF08	020.067-018	COMPUTER-APPLICATIONS ENGINEER	141
SK04	77387311	CONCRETE & TERRAZZO FINISHERS	163
SK04	46.0402	CONCRETE PLACING & FINISHING	164
SK04	869.664-010	CONCRETE-BUILDING ASSEMBLER	164
SK05	900.683-010	CONCRETE-MIXING-TRUCK DRIVER	167
SK04	575.461-010	CONCRETE-STONE FABRICATOR	164
TC04	03.0201	CONSERVATION & REGULATION, GENERAL	220
SK05	49.0202	CONSTRUCTION EQUIPMENT OPERATION	167
OF06	11515017	CONSTRUCTION MANAGERS	134
SK04	869.664-014	CONSTRUCTION WORKER I	164
SK04	869.687-026	CONSTRUCTION WORKER II	164
SK04	77387899	CONSTRUCTION WORKERS (NO DETAIL)	163
TC04	22021908	CONSTRUCTION, BUILDING INSPECTOR	219
SK05	620.261-022	CONSTRUCTION-EQUIPMENT MECHANIC	167
OF08	221.382-014	CONTROL CLERK, DATA PROCESSI	141
MK02	186.117-014	CONTROLLER	102
TC01	47.0502	CONVENTIONAL ELECTRIC POWER GENERATION	211
SK07	77897951	CONVEYOR OPERATORS & TENDERS	172
SV06	313.361-014	COOK (HOTEL/REST.)	198
SV06	315.361-010	COOK (INSTITUTION)	198
SV06	317.687-010	COOK HELPER (HOTEL/REST.)	198
SV06	313.361-022	COOK, SHORT ORDER 1	198
SV06	313.671-010	COOK, SHORT ORDER 2	198
SV06	313.361-030	COOK, SPECIALTY, FOREIGN FOOD	198
SV06	77592917	COOKING MACHINE OPER., FOOD/TOB.	197
SV06	55565030	COOKS: FAST FOOD & SHORT ORDER	197
SV06	55565028	COOKS: INSTITUTION OR CAFETERIA	197
SV06	55565026	COOKS: RESTAURANT	197
PS03	372.667-018	CORRECTION OFFICER	151
PS03	55363017	CORRECTION OFFICERS & JAILERS	150
SV04	332.271-010	COSMETOLOGIST	192
SV04	332.271-014	COSMETOLOGIST APPRENTICE	192
SV04	12.0403	COSMETOLOGY	192
OF02	22021902	COST ESTIMATORS	122
SV05	045.107-010	COUNSELOR, GUIDANCE	195
MK03	33949017	COUNTER & RENTAL CLERKS	104
SV10	311.477-014	COUNTER ATTENDANT, LUNCHROOM/COFFEE SHOP	207
OF02	44353702	COURT CLERKS	122
GX03	50.0201	CRAFTS, GENERAL	52
SV05	23.0501	CREATIVE WRITING	195
OF02	44353114	CREDIT AUTHORIZERS	122
OF02	44353117	CREDIT CHECKERS	122
PS03	43.0104	CRIMINAL JUSTICE STUDIES	151
MK03	762.687-026	CROSSBAND LAYER	105
PS03	55363044	CROSSING GUARDS	150
SK07	77592965	CRUSHING & MIXING MACHINE OPER.	172
OF07	203.582-018	CRYPTOGRAPHIC-MACHINE OPERATOR	138
LA02	22631511	CURATORS, ARCHIVISTS, MUSEUM TECH.	91

ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
TC07	785.261-014	CUSTOM TAILOR	229
TC07	77489505	CUSTOM TAILORS & SEWERS	228
OF03	299.367-010	CUSTOMER SERVICE CLERK	126
SK04	667.682-022	CUT-OFF-SAW OPERATOR	164
SV06	529.686-022	CUTLET MAKER, PORK	198
TC07	77693926	CUTTERS & TRIMMERS, HAND	228
SK07	77592944	CUTTING & SLICING MACHINE OPER.	172
SV06	529.686-026	DAIRY HELPER	198
SV06	77592932	DAIRY PROCESSING EQUIP. OPERATOR	197
GX03	50.0301	DANCE	52
OF07	44656021	DATA ENTRY KEYERS, COMPOSING	137
OF07	44656017	DATA ENTRY KEYERS, EXC. COMPOSING	137
SK01	77285705	DATA PROCESSING EQUIP. REPAIRERS	154
OF07	203.582-026	DATA-CODE OPERATOR (CLERICAL)	138
SV02	299.477-010	DELIVERER, MERCHANDISE	186
MK03	297.354-010	DEMONSTRATOR (RETAIL TRADE)	105
HE02	079.371-010	DENTAL ASSISTANT	65
HE02	55666002	DENTAL ASSISTANTS	64
HE02	17.0101	DENTAL ASSISTING	65
HE02	17.0102	DENTAL HYGIENE	65
HE02	22732908	DENTAL HYGIENISTS	64
HE02	22732105	DENTISTS	64
TC10	77387914	DERRICK OPERATORS, OIL & GAS	237
TC10	930.683-018	DERRICK WORKER, WELL SERVICE (PETROL.)	238
GX03	22834038	DESIGNERS	51
GX04	976.681-010	DEVELOPER	55
SK07	007.161-014	DIE-DESIGNER APPRENTICE (MACHINE SHOP)	173
SK05	47.0605	DIESEL ENGINE MECHANICS	167
SK05	625.281-010	DIESEL MECHANIC	167
HE06	22732523	DIETETIC TECHNICIANS	76
HE06	077.127-018	DIETITIAN, CONSULTANT	77
HE06	22732521	DIETITIANS & NUTRITIONISTS	76
SV10	55565014	DINING ROOM & BARTENDER HELPERS	206
SV10	311.677-018	DINING ROOM ATTENDANT (HOTEL/REST.)	207
GX03	962.162-010	DIRECTOR, TECHNICAL	52
SV08	22427505	DIRECTORS: RELIGIOUS ACTIV./EDUC.	201
OF03	44757105	DIRECTORY ASSISTANCE OPERATORS	125
PS03	379.362-010	DISPATCHER, RADIO	151
PS03	44858002	DISPATCHER: POLICE, FIRE, AMBULANCE	150
OF03	44858005	DISPATCHERS, OTHER	125
HE06	22732514	DISPENSING & MEASURING OPTICIANS	76
SK05	850.683-014	DITCHER OPERATOR	167
AG07	418.674-010	DOG GROOMER	43
SV06	526.684-010	DOUGHNUT MAKER	198
GX02	001.261-010	DRAFTER, ARCHITECTURAL	49
TC02	018.261-010	DRAFTER, CARTOGRAPHIC	214
GX02	017.261-026	DRAFTER, COMMERCIAL	49
GX02	22122512	DRAFTERS	48
GX02	15.0202	DRAFTING & DESIGN TECHNOLOGY	49
GX02	48.0101	DRAFTING, GENERAL	49
SK05	850.683-018	DRAGLINE OPERATOR	167
GX03	50.0501	DRAMATIC ARTS	52
GX03	50.0705	DRAWING	52



ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
TC10	930.666-010	DRILLER HELPER	238
SV02	909.137-010	DRIVER SUPERVISOR (MOTOR TRANSP.)	186
MK03	292.353-010	DRIVER, SALES ROUTE	105
TC07	362.382-014	DRY CLEANER	229
SK04	77387108	DRYWALL INSTALLERS	163
GX04	44656005	DUPLICATING MACHINE OPERATORS	54
TC10	40.0703	EARTH SCIENCE	238
MK06	45.0601	ECONOMICS	116
MK06	050.067-010	ECONOMIST	116
MK02	22427102	ECONOMISTS, MARKET ANALYSTS	101
MK03	762.684-038	EDGE BANDER, HAND	105
GX05	132.017-014	EDITOR, NEWSPAPER	58
OF06	11515005	EDUCATION ADMINISTRATORS	134
SV05	13.1005	EDUCATION OF THE EMOTIONALLY HANDICAPPED	195
SV05	13.1007	EDUCATION OF THE MULTIPLE HANDICAPPED	195
SV05	13.0101	EDUCATION, GENERAL	195
SK09	77285911	ELECTRIC METER INSTALLERS (UTILITY)	178
SK01	77285714	ELECTRIC MOTOR REPAIRERS	154
SK09	821.381-010	ELECTRIC-METER TESTER (UTILITY)	179
SK01	22122505	ELECTRICAL & ELECTRONIC TECHNS.	154
SK02	827.584-010	ELECTRICAL APPLIANCE PREPARER	158
SK01	003.061-010	ELECTRICAL ENGINEER	155
SK09	77285723	ELECTRICAL POWERLINE INSTALLERS (UTILITY)	178
SK01	829.281-014	ELECTRICAL REPAIRER	155
SK01	15.0302	ELECTRICAL TECHNOLOGY	155
SK01	77693905	ELECTRICAL, ELECTRONIC ASSEMBLER	154
SK01	14.1001	ELECTRICAL, ELECTRONICS & COMMUNICATIONS ENGI	155
SK02	723.381-010	ELECTRICAL-APPLIANCE REPAIRER	158
SK01	22122126	ELECTRICAL/ELECTRONIC ENGINEERS	154
SK01	829.684-022	ELECTRICIAN HELPER	155
SK01	77387202	ELECTRICIANS	154
HE03	22732926	ELECTROCARDIOGRAPH TECHNICIANS	67
HE03	22732923	ELECTROENCEPHALOGRAPH TECHN.	67
SK08	77591921	ELECTROLYTIC PLATING OPER., M/P	175
SK01	77693111	ELECTROMECHANICAL EQ. ASSEMBLER	154
TC05	15.0403	ELECTROMECHANICAL TECHNOLOGY	223
SK01	77285908	ELECTROMED./BIOMEDICAL REPAIRERS	154
SK01	15.0303	ELECTRONIC TECHNOLOGY	155
SK01	828.251-010	ELECTRONIC-SALES-&-SERVICE TECHN.	155
SK01	726.261-010	ELECTRONICS ASSEMBLER, DEVELOPMENTAL	155
SK01	828.281-010	ELECTRONICS MECHANIC	155
SK01	003.161-014	ELECTRONICS TECHNICIAN	155
SV05	13.1202	ELEMENTARY EDUCATION	195
SV09	195.267-010	ELIGIBILITY WORKER	204
PS01	079.374-010	EMERGENCY MEDICAL TECHNICIAN	145
PS01	22732508	EMERGENCY MEDICAL TECHNICIANS	144
OF04	166.267-010	EMPLOYMENT INTERVIEWER	129
OF04	22021508	EMPLOYMENT INTERVIEWERS	128
TC02	020.067-010	ENGINEERING ANALYST	214
TC05	007.161-018	ENGINEERING ASSISTANT, MECHANICAL EQUIPMENT	223
TC02	14.1101	ENGINEERING MECHANICS	214
SV05	22631222	ENGINEERING TEACHERS	194
TC02	22122599	ENGINEERING TECHN. (NO DETAIL)	213

ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
TC02	14.0101	ENGINEERING, GENERAL	214
TC02	11313017	ENGINEERING, MATH., NAT.SCI. MGR.	213
TC02	22122199	ENGINEERS (NO DETAIL)	213
SV05	22631216	ENGLISH & FOREIGN LANGUAGE TEACHERS	194
SV05	13.1305	ENGLISH EDUCATION	195
SV05	23.0101	ENGLISH, GENERAL	195
TC06	704.382-010	ENGRAVER, PANTOGRAPH 1	226
SK02	637.261-014	ENVIRON.-CONTROL-SYST-INSTALLER-SERVICER	158
TC04	15.0599	ENVIRONMENTAL CONTROL TECHNOLOGIES, OTHER	220
TC04	14.1401	ENVIRONMENTAL HEALTH ENGINEERING	220
OF01	160.267-018	ESTIMATOR	120
SV06	187.161-010	EXECUTIVE CHEF	198
TC10	77387999	EXTRACTIVE WORKERS (NO DETAIL)	237
SK07	77591311	EXTRUDING MACH. SETTER/OPER.,M/P	172
SK07	77592971	EXTRUDING, FORMING OPERATOR	172
TC07	77489502	FABRIC & APPAREL PATTERNMAKERS	228
SK08	809.381-010	FABRICATOR-ASSEMBLER, METAL PROD.	176
SV05	090.227-010	FACULTY MEMBER, COLLEGE OR UNIVERSITY	195
AG05	66373002	FALLERS & BUCKERS	37
AG02	22631323	FARM & HOME MANAGEMENT ADVISORS	29
AG02	01.0104	FARM & RANCH MANAGEMENT	30
AG03	624.281-010	FARM EQUIPMENT MECHANIC	32
AG03	77285321	FARM EQUIPMENT MECHANICS	31
AG05	66272001	FARM, FORESTRY SUPERVISORS	37
AG03	624.381-018	FARM-MACHINERY SET-UP MECHANIC	32
AG01	401.161-010	FARMER, CASH GRAIN	27
AG01	404.687-010	FARMWORKER, FIELD CROP	27
AG01	421.683-010	FARMWORKER, GENERAL 1	27
AG01	421.687-010	FARMWORKER, GENERAL 2	27
AG01	401.683-010	FARMWORKER, GRAIN 1	27
AG01	410.664-010	FARMWORKER, LIVESTOCK	27
MK03	08.0102	FASHION MERCHANDISING	105
MK03	08.0103	FASHION MODELING	105
SK04	77387817	FENCE ERECTORS	163
SK06	806.684-054	FIBERGLASS LAMINATOR (SHIP & BOAT)	170
OF02	206.362-010	FILE CLERK I	123
OF02	206.367-014	FILE CLERK II	123
OF02	44555321	FILE CLERKS	122
OF03	295.367-018	FILM-RENTAL CLERK	126
MK06	020.167-014	FINANCIAL ANALYST	116
MK06	11313002	FINANCIAL MANAGERS	115
MK06	22021199	FINANCIAL SPECIALISTS (NO DETAIL)	115
GX03	50.0701	FINE ARTS, GENERAL	52
MK03	754.684-030	FINISHER, HAND	105
PS02	373.364-010	FIRE FIGHTER	148
PS02	55363008	FIRE FIGHTERS	147
PS02	55161002	FIRE FIGHTING SUPERVISORS	147
PS02	55363001	FIRE INSPECTORS	147
SK02	709.384-010	FIRE-EXTINGUISHER REPAIRER	158
AG06	55363041	FISH & GAME WARDENS	40
SK04	372.667-022	FLAGGER (CONSTRUCTION)	164
SK04	864.481-010	FLOOR LAYER	164
AG04	142.081-010	FLORAL DESIGNER	35

ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
MK03	732.684-074	FLY TIER (SPORTS EQUIP.)	105
SV10	216.362-022	FOOD & BEVERAGE CONTROLLER	207
SV06	319.484-010	FOOD ASSEMBLER, KITCHEN	198
SV06	77489808	FOOD BATCHMAKERS	197
SV06	55565038	FOOD PREPARATION WORKERS	197
SV10	20.0401	FOOD PRODUCTION, MGMT & SERVICES, GENERAL	207
SV06	20.0406	FOOD SERVICE	198
MK04	11515026	FOOD SERVICE & LODGING MANAGERS	109
SV06	55565099	FOOD SERVICE WORKERS (NO DETAIL)	197
SV06	355.677-010	FOOD-SERVICE WORKER, HOSPITAL	198
MK06	211.362-014	FOREIGN BANKNOTE TELLER-TRADER	116
SV05	13.1306	FOREIGN LANGUAGES EDUCATION	195
LA01	16.0101	FOREIGN LANGUAGES, MULTIPLE EMPHASIS	89
AG05	66979002	FOREST & CONSERVATION WORKERS	37
AG05	005.167-018	FOREST ENGINEER (FORESTRY, LOGGING)	38
AG05	03.0506	FOREST MANAGEMENT	38
AG05	452.687-014	FOREST-FIRE FIGHTER (FORESTRY)	38
AG05	22224302	FORESTER, CONSERVATION SCIENTIST	37
AG05	03.0501	FORESTRY & RELATED SCIENCES, GENERAL	38
AG05	03.0599	FORESTRY & RELATED SCIENCES, OTHER	38
AG05	03.0401	FORESTRY PRODUCTION & PROCESSING, GENERAL	38
SK04	860.381-046	FORM BUILDER	164
GX03	777.684-014	FORM MAKER, PLASTER	52
SK05	850.683-022	FORM-GRADER OPERATOR	167
SK09	77285505	FRAME WIRERS: CENTRAL OFFICE (UTILITY)	178
GX03	739.684-078	FRAMER	52
LA01	16.0901	FRENCH	89
SK05	921.683-042	FRONT-END LOADER OPERATOR	167
SK06	620.281-038	FRONT-END MECHANIC	170
TC01	77591935	FURNACE OPERATORS & TENDERS	210
TC01	77592923	FURNACE, KILN, OVEN, KETTLE OPER.	210
MK03	763.684-038	FURNITURE ASSEMBLER	105
MK03	739.684-082	FURNITURE ASSEMBLER-&-INSTALLER	105
GX03	142.061-022	FURNITURE DESIGNER	52
SK04	763.381-010	FURNITURE FINISHER	164
SK04	77489314	FURNITURE FINISHERS	163
SK04	48.0702	FURNITURE MAKING	164
MK04	342.457-010	GAME ATTENDANT	110
AG04	66979014	GARDENERS & GROUNDSKEEPERS	34
TC10	77795017	GAUGERS	237
AG01	180.167-018	GENERAL MANAGER, FARM	27
OF06	11919005	GENERAL MANAGERS & TOP EXEC.	134
OF02	07.0705	GENERAL OFFICE CLERK	123
OF02	44555347	GENERAL OFFICE CLERKS	122
OF06	183.167-018	GENERAL SUPERVISOR	135
TC03	40.0602	GEOCHEMISTRY	217
TC02	45.0701	GEOGRAPHY	214
TC10	14.1501	GEOLOGICAL ENGINEERING	238
TC02	024.061-018	GEOLOGIST	214
TC10	40.0601	GEOLOGY	238
TC10	14.1601	GEOPHYSICAL ENGINEERING	238
TC10	22224111	GEOPHYSICISTS	237
LA01	16.0501	GERMAN	89

ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
SK04	865.381-010	GLAZIER (CONST.)	164
SK04	77387811	GLAZIERS	163
SK05	77897938	GRADER, DOZER, SCRAPER OPER.	166
AG01	66979011	GRADERS & SORTERS: AGRICULTURAL	26
SV05	22631117	GRADUATE ASSISTANTS, TEACHING	194
GX04	21.0106	GRAPHIC ARTS	55
TC06	77591114	GRINDING, BUFFING MACH. SET/OP., M/	225
AG04	406.687-010	GROUNDSKEEPER (GOVT. SER.)	35
SV09	195.164-010	GROUP WORKER	204
PS03	372.167-014	GUARD, CHIEF	151
PS03	372.667-034	GUARD, SECURITY	151
PS03	55363047	GUARDS & WATCH GUARDS	150
MK04	353.367-014	GUIDE, ESTABLISHMENT	110
MK04	55868017	GUIDES	109
SK07	632.281-010	GUNSMITH	173
SV04	55868005	HAIRDRESSERS & COSMETOLOGISTS	191
SK04	77998999	HAND LABORERS (NO DETAIL)	163
SK04	77998799	HAND MATERIAL MOVERS (NO DETAIL)	163
MK03	77998902	HAND PACKERS & PACKAGERS	104
SK04	77387308	HARD TILE SETTERS	163
AG05	77592305	HEAD SAWYERS	37
HE06	55666099	HEALTH SERVICE WORKER (NO DETAIL)	76
SV05	22631212	HEALTH SPECIALTIES TEACHERS	194
SK01	359.363-010	HEALTH-EQUIPMENT SERVICER	155
SK02	007.181-010	HEAT-TRANSFER TECHNICIAN	158
SK02	77285902	HEATING, A.C., REFRIGERATION MECH.	157
SK05	47.0302	HEAVY EQUIP. MAINTENANCE & REPAIR	167
SK05	77285314	HEAVY EQUIPMENT MECHANICS	166
SK04	77998301	HELPERS: CONSTRUCTION	163
SK04	77998323	HELPERS: EXTRACTIVE WORKERS	163
SK04	77387711	HIGHWAY MAINTENANCE WORKERS	163
SK05	899.684-014	HIGHWAY-MAINTENANCE WORKER	167
LA02	45.0801	HISTORY	92
SK05	77897940	HOIST, WINCH, CRANE OPERATORS	166
SK02	77285709	HOME APPLIANCE, TOOLS REPAIRERS	157
HE05	354.377-014	HOME ATTENDANT	74
HE05	355.377-014	HOME ATTENDANT	74
SV05	19.0101	HOME ECONOMICS, GENERAL	195
SK01	77285708	HOME ENTERTAINMENT EQ. REPAIRERS	154
MK03	096.161-010	HOME-SERVICE DIRECTOR (CONSUMER EDUCATION)	105
SV05	309.354-010	HOMEMAKER	195
AG07	419.224-010	HORSE TRAINER	43
AG07	418.381-010	HORSESHOER	43
AG04	405.684-014	HORTICULTURAL WORKER	35
AG04	405.687-014	HORTICULTURAL WORKER 2	35
HE05	355.677-014	HOSPITAL ENTRANCE ATTENDANT	74
SV10	310.137-010	HOST/HOSTESS RESTAURANT	207
SV10	55565002	HOSTS & HOSTESSES	206
MK04	238.362-010	HOTEL CLERK (MOTEL)	110
MK04	44353808	HOTEL DESK CLERKS	109
PS03	376.367-018	HOUSE OFFICER (HOTEL/REST.)	151
SV01	321.137-010	HOUSEKEEPER	183
SV01	55761008	HOUSEKEEPERS, HOTEL & MOTEL	182

ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
HE06	195.267-014	HUMAN RELATIONS OR DRUG & ALCOHOL COUNSELOR	77
OF04	06.0601	HUMAN RESOURCES DEVELOPMENT	129
SV09	30.0401	HUMANITIES AND SOCIAL SCIENCES	204
SK05	599.685-046	IMPREGNATING-TANK-OPERATOR	167
SV05	13.1309	INDUSTRIAL ARTS EDUCATION	195
SK04	21.0101	INDUSTRIAL ARTS, GENERAL	164
SK01	47.0105	INDUSTRIAL ELECTRONICS	155
SK01	77285717	INDUSTRIAL ELECTRONICS REPAIRERS	154
TC09	14.1701	INDUSTRIAL ENGINEERING	235
TC09	22122128	INDUSTRIAL ENGINEERS, EXC. SAFETY	234
MK03	11515014	INDUSTRIAL PRODUCTION MANAGERS	104
TC09	15.0699	INDUSTRIAL PRODUCTION TECHNOLOGIES, OTHER	235
SK05	77897947	INDUSTRIAL TRUCK/TRACTOR OPER.	166
OF03	237.367-022	INFORMATION CLERK	126
SK04	869.684-026	INSTALLER	164
SK04	77285938	INSTALLERS: MANUFACTURED BLDGS.	163
OF06	06.0799	INSTITUTIONAL MANAGEMENT, OTHER	135
SV05	22631321	INSTRUCTORS & COACHES: SPORTS	194
SV05	22631317	INSTRUCTORS: NONVOCATIONAL EDUC.	194
SK01	003.261-010	INSTRUMENTATION TECHNICIAN	155
SK04	77387802	INSULATION WORKERS	163
MK05	44353302	INSURANCE ADJUSTERS/INVESTIGATOR	112
MK05	44353305	INSURANCE APPRAISERS: AUTO	112
MK05	44353311	INSURANCE CLAIMS CLERKS	112
MK05	219.387-014	INSURANCE CLERK 1	113
MK05	44353308	INSURANCE EXAMINING CLERKS	112
MK05	44353314	INSURANCE POLICY PROCESS. CLERKS	112
GX03	04.0501	INTERIOR DESIGN	52
OF06	06.0901	INTERNATIONAL BUSINESS MANAGEMENT	135
OF04	45.0901	INTERNATIONAL RELATIONS	129
OF04	168.267-062	INVESTIGATOR	129
SV01	382.664-010	JANITOR	183
SV01	381.137-010	JANITOR, HEAD	183
SV01	55767001	JANITOR, PORTER, CLEANER, MAID	182
TC06	700.281-010	JEWELER	226
TC06	700.281-014	JEWELER APPRENTICE	226
TC06	77489123	JEWELERS & SILVERSMITHS	225
MK04	153.244-010	JOCKEY	110
GX05	09.0401	JOURNALISM (MASS COMMUNICATIONS)	58
OF04	22528101	JUDGES, MAGISTRATES, ADJUDICATOR	128
OF07	203.582-030	KEYPUNCH OPERATOR	138
SV06	318.687-010	KITCHEN HELPER (HOTEL/REST.)	198
SV06	310.137-014	KITCHEN SUPERVISOR	198
TC07	685.665-014	KNITTING-MACHINE OPERATOR	229
AG01	922.687-058	LABORER, STORES	27
SK07	754.484-010	LAMINATOR, PREFORMS	173
AG04	408.161-010	LANDSCAPE GARDENER	35
SK07	77591105	LATHE, TURNING MACH. SETTER/OP.	172
TC07	361.684-014	LAUNDRY WORKER I	229
TC07	77592726	LAUNDRY, DRYCLEANING MACH. OPER.	228
OF04	22.0101	LAW	129
OF04	22528302	LAW CLERKS	128
PS03	43.0107	LAW ENFORCEMENT	151

ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
OF04	22528108	LAWYERS	128
TC07	362.684-026	LEATHER CLEANER	229
TC07	783.684-026	LEATHER WORKER	229
OF04	22.0103	LEGAL ASSISTING	129
OF04	22528399	LEGAL OCCUPATIONS (NO DETAIL)	128
OF04	07.0604	LEGAL SECRETARIAL	129
OF04	201.362-010	LEGAL SECRETARY	129
GX04	77592515	LETTERPRESS SETTER/OPERATOR	54
LA01	24.0199	LIBERAL/GENERAL STUDIES, OTHER	89
LA03	22631502	LIBRARIANS, PROFESSIONAL	94
LA03	249.367-046	LIBRARY ASSISTANT	95
LA03	44353902	LIBRARY ASSISTANTS, BOOKMOBILE	94
OF02	44353708	LICENSE CLERKS	122
HE04	22732505	LICENSED PRACTICAL NURSES	70
SV05	22631202	LIFE SCIENCES TEACHERS	194
HE03	22224399	LIFE SCIENTISTS (NO DETAIL)	67
SK09	822.381-014	LINE INSTALLER-REPAIRER (UTILITY)	179
AG02	02.0208	LIVESTOCK	30
OF02	44353121	LOAN & CREDIT CLERKS	122
TC06	77285923	LOCKSMITHS & SAFE REPAIRERS	225
SV02	77897305	LOCOMOTIVE ENGINEERS	185
SV02	77897311	LOCOMOTIVE FIRERS	185
AG05	66979008	LOG GRADERS & SCALERS	37
AG05	66373008	LOG HANDLING EQUIPMENT OPERATORS	37
AG05	454.684-018	LOGGER, ALL-ROUND	38
SK05	66373011	LOGGING TRACTOR OPERATORS	166
SK05	929.683-010	LOGGING-TRACTOR OPERATOR	167
TC01	77592926	LOW PRESSURE BOILER OPERATOR	210
SK06	915.687-018	LUBRICATION SERVICER	170
AG05	922.687-070	LUMBER HANDLER (WOODWORKING)	38
SK07	77693105	MACHINE BUILDERS	172
SK07	77998502	MACHINE FEEDERS & OFFBEARERS	172
SK07	77591321	MACHINE FORMING OPERATORS, M/P	172
MK03	649.685-070	MACHINE OPERATOR, GENERAL (PAPER GOODS)	105
SK07	77592998	MACHINE OPERATORS (NO DETAIL)	172
SK04	669.280-010	MACHINE SETTER (WOODWORKING)	164
SK07	77591117	MACHINE TOOL CUTTING OPER., M/P	172
SK07	48.0503	MACHINE TOOL OPERATION/MACHINE SHOP	173
SK07	77285128	MACHINERY MAINTENANCE WORKERS	172
SK07	77285113	MACHINERY MECH: SEWING MACH.	172
SK07	77285117	MACHINERY MECH: UNDERGROUND MINE	172
SK07	77285118	MACHINERY MECHANIC: PLANT	172
SK07	600.280-022	MACHINIST (GENERAL)	173
SK07	669.380-014	MACHINIST, WOOD	173
SK07	77489108	MACHINISTS	172
OF03	209.587-026	MAIL CLERK	126
OF02	44757302	MAIL CLERKS, EXC. MAIL MACHINE	122
OF03	209.687-014	MAIL HANDLER	126
SK07	629.281-030	MAINTENANCE MECHANIC	173
SK06	620.664-014	MAINTENANCE MECHANIC HELPER	170
SV01	899.381-010	MAINTENANCE REPAIRER, BUILDING	183
SK05	77285132	MAINTENANCE REPAIRERS, GENERAL	166
SV01	891.137-010	MAINTENANCE SUPERVISOR	183

ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
SK02	47.0106	MAJOR APPLIANCE REPAIR	158
OF08	06.1201	MANAGEMENT INFORMATION SYSTEMS	141
OF06	06.1303	MANAGEMENT SCIENCE, GENERAL	135
OF06	189.167-018	MANAGEMENT TRAINEE (ANY IND.)	135
SV01	186.167-018	MANAGER, APARTMENT HOUSE	183
OF04	166.167-018	MANAGER, BENEFITS (PERSONNEL)	129
MK02	189.167-022	MANAGER, DEPARTMENT	102
MK03	299.137-010	MANAGER, DEPARTMENT	105
SV10	185.167-022	MANAGER, FOOD CONCESSION	207
SV10	187.167-106	MANAGER, FOOD SERVICE	207
SV10	187.167-126	MANAGER, LIQUOR ESTABLISHMENT	207
MK02	185.167-034	MANAGER, MERCHANDISE	102
OF06	169.167-034	MANAGER, OFFICE	135
MK02	185.167-038	MANAGER, PARTS	102
MK02	185.167-046	MANAGER, RETAIL STORE	102
MK02	163.167-018	MANAGER, SALES	102
OF06	11919999	MANAGERS & ADMIN. (NO DETAIL)	134
SV04	331.674-010	MANICURIST	192
SV04	55868008	MANICURISTS	191
SK01	638.261-018	MANUFACTURERS SERVICE REPRESENTATIVE	155
SK04	861.381-030	MARBLE SETTER	164
MK02	06.1401	MARKETING MANAGEMENT	102
MK02	11313011	MARKETING, ADV., PUB. REL. MGRS.	101
MK04	334.374-010	MASSEUR/MASSEUSE	110
MK03	222.387-034	MATERIAL CLERK	105
MK03	929.687-030	MATERIAL HANDLER	106
SK05	77897989	MATERIAL MOVING OPER. (NO DETAIL)	166
SK04	44858099	MATERIAL WORKERS (NO DETAIL)	163
SV05	22631224	MATHEMATICAL SCIENCES TEACHERS	194
SV05	13.1311	MATHEMATICS EDUCATION	195
TC02	27.0101	MATHEMATICS, GENERAL	214
SV06	316.684-018	MEAT CUTTER	198
SV06	77693938	MEAT, POULTRY, FISH CUTTERS	197
SV06	316.684-022	MEAT-CUTTER APPRENTICE	198
SK05	620.281-050	MECHANIC, INDUSTRIAL TRUCK	167
TC05	77285928	MECHANICAL CONTROL INSTALLERS	222
GX02	15.0805	MECHANICAL DESIGN TECHNOLOGY	49
TC05	14.1901	MECHANICAL ENGINEERING	223
TC05	22122511	MECHANICAL ENGINEERING TECHN.	222
TC05	22122135	MECHANICAL ENGINEERS	222
TC05	007.161-026	MECHANICAL-ENGINEERING TECHNICIAN	223
SK06	47.9999	MECHANICS & REPAIRERS, OTHER	170
SK07	77285999	MECHANICS, INSTALLERS (NO DETAIL)	172
HE03	22732905	MED./CLINICAL LAB. TECHNICIANS	67
HE03	22732902	MED./CLINICAL LAB. TECHNOLOGISTS	67
HE05	079.367-010	MEDICAL ASSISTANT	74
HE05	55666005	MEDICAL ASSISTANTS	73
HE06	070.101-046	MEDICAL OFFICER	77
HE01	18.0703	MEDICAL RECORDS ADMINISTRATION	62
HE01	22732911	MEDICAL RECORDS TECHNICIANS	61
HE03	22224311	MEDICAL SCIENTISTS	67
HE01	07.0605	MEDICAL SECRETARIAL	62
HE01	201.362-014	MEDICAL SECRETARY	62

ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
HE03	17.0310	MEDICAL TECHNOLOGY	68
HE03	078.381-010	MEDICAL-LABORATORY ASSISTANT	68
HE03	078.381-014	MEDICAL-LABORATORY TECHNICIAN	68
HE01	245.362-010	MEDICAL-RECORD CLERK	62
OF06	11515008	MEDICINE & HEALTH SERV. MGRS.	134
TC07	77285956	MENDERS: GARMENTS, LINENS	228
HE06	17.0405	MENTAL HEALTH/HUMAN SERVICES ASSISTING	77
HE06	17.0406	MENTAL HEALTH/HUMAN SERVICES TECHNOLOGY	77
HE06	17.0499	MENTAL HEALTH/HUMAN SERVICES, OTHER	77
MK03	22834044	MERCHANDISE DISPLAYERS	104
OF03	44757311	MESSENGERS	125
SK08	77591908	METAL MOLDING, CASTING SETTER/OP.	175
SK08	77693941	METAL POURERS, BASIC SHAPES	175
TC10	14.2001	METALLURGICAL ENGINEERING	238
TC10	22122105	METALLURGISTS & MATERIAL ENGRS.	237
SK01	823.281-018	METEOROLOGICAL-EQUIPMENT REP	155
TC04	22224108	METEOROLOGISTS	219
SK09	44858014	METER READERS: UTILITIES	178
HE03	26.0501	MICROBIOLOGY	68
OF07	11.0601	MICROCOMPUTER APPLICATIONS	138
AG01	410.685-010	MILKER, MACHINE	27
SK05	77285123	MILLWRIGHTS	166
SK05	77387943	MINE CUTTING MACHINE OPERATORS	166
TC10	14.2101	MINING & MINERAL ENGINEERING	238
TC10	22122108	MINING ENGINEERS, INCL. SAFETY	237
TC10	11515021	MINING, QUARRY, OIL DRILL MGRS	237
SV01	899.484-010	MOBILE-HOME-LOT UTILITY WORK	183
SK07	601.280-030	MOLD MAKER, DIE-CASTING & PLASTIC MOLDING	173
SK07	556.380-010	MOLD SETTER	173
SK04	665.682-018	MOLDER OPERATOR (WOODWORKING)	164
SK08	77693944	MOLDERS & CASTERS, HAND	175
GX03	77592905	MOTION PICTURE PROJECTIONISTS	51
SK06	620.281-054	MOTORCYCLE REPAIRER	170
SK05	850.683-026	MUCKING-MACHINE OPERATOR	167
SK06	807.664-010	MUFFLER INSTALLER	170
OF02	44353705	MUNICIPAL CLERKS	122
SV05	13.1312	MUSIC EDUCATION	195
GX03	50.0903	MUSIC PERFORMANCE	52
GX03	50.0904	MUSIC THEORY & COMPOSITION	52
GX03	50.0901	MUSIC, GENERAL	52
TC06	77285921	MUSICAL INSTRUMENT REPAIRERS	225
GX03	22834051	MUSICIANS, INSTRUMENTAL	51
MK06	44353105	NEW ACCOUNTS CLERKS	115
SK06	806.361-026	NEW CAR GET-READY MECHANIC	170
GX05	131.267-014	NEWSWRITER	58
SK08	77591926	NONELECTROLYTIC PLATING OPER. M/P	175
TC01	22122117	NUCLEAR ENGINEERS	210
HE07	22732914	NUCLEAR MED., RADIOLOGIC TECHN.	79
SK07	77591502	NUMERICAL CONTROL MACH. TOOL, M/P	172
HE05	355.674-014	NURSE AIDE	74
HE08	075.374-010	NURSE, GENERAL DUTY (REGISTERED)	83
HE04	079.374-014	NURSE, LICENSED PRACTICAL	71
HE04	354.374-010	NURSE, PRACTICAL	71



ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
SV05	359.677-018	NURSERY SCHOOL ATTENDANT	195
AG04	66979005	NURSERY WORKERS	34
HE05	55666008	NURSING AIDES, ORDERLIES	73
HE05	17.0602	NURSING ASSISTING	74
HE08	18.1101	NURSING, GENERAL	83
TC04	168.167-062	OCC-SAFETY & HEALTH INSPECTOR	220
TC04	15.0701	OCCUPATIONAL SAFETY & HEALTH TECHNOLOGY	220
HE06	22732305	OCCUPATIONAL THERAPISTS	76
HE06	55666021	OCCUPATIONAL THERAPY ASSISTANTS	76
OF02	239.567-010	OFFICE HELPER	123
OF02	44656099	OFFICE MACH. OPERATOR (NO DETAIL)	122
SK01	77285926	OFFICE MACHINE SERVICER	154
SK01	633.281-018	OFFICE-MACHINE SERVICER	155
GX04	77592512	OFFSET LITHOGRAPHIC PRESS SETTER	54
GX04	651.482-014	OFFSET-PRESE-OPERATOR APPRENTICE	55
TC10	77897908	OIL PUMPERS, EXCEPT WELL HEAD	237
SK05	859.683-010	OPERATING ENGINEER	167
SK05	77897956	OPERATING ENGINEERS	166
HE06	079.364-014	OPTOMETRIC ASSISTANT	77
HE09	22732108	OPTOMETRISTS	85
MK03	44555323	ORDER CLERKS: MATERIALS, SERVICE	104
HE05	355.674-018	ORDERLY	74
SK01	77285599	OTHER COMMUNICATION MECHANICS	154
HE06	22732999	OTHER HEALTH PROFESSIONALS, TECHN	76
SK07	77592198	OTHER METAL/PLASTIC MACH. OPER.	172
SV06	77489899	OTHER PRECISION FOOD, TOBACCO	197
GX04	77592599	OTHER PRINTING MACHINE OPERATORS	54
MK04	31.0201	OUTDOOR RECREATION	110
MK03	920.587-018	PACKAGER, HAND	106
MK03	920.685-078	PACKAGER, MACHINE	106
SK07	77592974	PACKAGING, FILLING MACHINE OPER.	172
SK04	840.381-010	PAINTER (CONST.)	164
MK03	741.684-026	PAINTER, SPRAY	105
SK04	77387402	PAINTERS & PAPERHANGERS	163
SK06	77592947	PAINTERS: TRANSPORTATION EQUIP.	169
SK06	77693947	PAINTING & COATING, HAND	169
SK04	46.0408	PAINTING & DECORATING	164
TC03	551.585-018	PAN HELPER (CHEM.)	217
SV06	317.684-014	PANTRY GOODS MAKER	198
SK07	77592914	PAPER GOODS MACHINE SETTER/OPER.	172
OF04	119.267-026	PARALEGAL ASSISTANT	129
OF04	22528305	PARALEGAL PERSONNEL	128
PS03	55363021	PARKING ENFORCEMENT OFFICERS	150
SV02	77897808	PARKING LOT ATTENDANTS	185
MK04	31.0301	PARKS & RECREATION MANAGEMENT	110
PS03	195.167-030	PAROLE OFFICER	151
MK03	222.367-042	PARTS CLERK	105
TC04	638.281-026	PARTS SALVAGER	220
MK03	249.367-058	PARTS-ORDER-&-STOCK CLERK	105
TC07	585.687-022	PATCHER	229
SK08	77489114	PATTERN & MODEL MAKERS: METAL	175
SK07	77489302	PATTERN & MODEL MAKERS: WOOD	172
TC07	781.381-022	PATTERN GRADER-CUTTER	229

ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
OF02	44555341	PAYROLL & TIMEKEEPING CLERKS	122
OF08	44656014	PERIPHERAL EDP EQUIP. OPERATORS	140
OF04	44555314	PERSONNEL CLERKS, EXCEPT PAYROLL	128
OF04	22021511	PERSONNEL, LABOR REL. SPECIALIST	128
OF04	11313005	PERSONNEL, TRAINING, LABOR REL. MGR.	128
SV01	55767008	PEST CONTROLLERS & ASSISTANTS	182
TC10	14.2501	PETROLEUM ENGINEERING	238
TC10	22122111	PETROLEUM ENGINEERS	237
TC10	77795014	PETROLEUM REFINERY OPERATORS	237
TC10	22224511	PETROLEUM TECHNICIANS	237
HE06	22732517	PHARMACISTS	76
HE06	18.1401	PHARMACY	77
HE06	55666026	PHARMACY ASSISTANTS	76
LA02	38.0101	PHILOSOPHY	92
OF07	203.582-042	PHOTOCOMPOSING-PERFORATOR-MACHINE OPERATOR	138
GX04	77592545	PHOTOENGRAVING MACHINE OPERATOR	54
GX04	77592521	PHOTOENGRAVING PHOTOGRAPHERS	54
GX04	143.062-022	PHOTOGRAPHER, MOTION PICTURE	55
GX04	22834023	PHOTOGRAPHERS	54
GX04	714.281-022	PHOTOGRAPHIC EQUIPMENT TECHNICIAN	55
GX04	77592908	PHOTOGRAPHIC PROCESSING MACH. OP.	54
GX05	143.062-034	PHOTOJOURNALIST	58
HE03	22224599	PHYS/LIFE SCI. TECHN. (NO DETAIL)	67
SV05	13.1314	PHYSICAL EDUCATION	195
TC10	22224199	PHYSICAL SCIENTISTS (NO DETAIL)	237
HE06	22732308	PHYSICAL THERAPISTS	76
HE06	17.0813	PHYSICAL THERAPY	77
HE06	355.354-010	PHYSICAL THERAPY AID	77
HE06	55666017	PHYSICAL THERAPY ASSISTANTS	76
HE09	22732511	PHYSICIAN'S ASSISTANTS	85
HE09	22732102	PHYSICIANS & SURGEONS	85
TC04	22224102	PHYSICISTS & ASTRONOMERS	219
SV05	22631206	PHYSICS TEACHERS	194
TC04	40.0801	PHYSICS, GENERAL	220
SK01	638.261-022	PINSETTER MECHANIC, AUTOMATIC	155
SK04	862.381-018	PIPE FITTER	164
SK04	77387508	PIPELAYERS	163
SK04	77387505	PIPELAYING FITTERS	163
TC01	77795099	PLANT & SYSTEM OCC. (NO DETAIL)	210
AG01	26.0305	PLANT PATHOLOGY	27
SK04	77387317	PLASTERERS & STUCCO MASONS	163
SK07	77591905	PLASTIC MOLDING, CASTING OPER.	172
SK04	862.381-030	PLUMBER (CONST.)	164
SK04	77387502	PLUMBER, PIPEFITTER, STEAMFITTER	163
HE09	22732111	PODIATRISTS	85
PS03	55161005	POLICE & DETECTIVE SUPERVISORS	150
PS03	55363009	POLICE DETECTIVES	150
PS03	55363014	POLICE PATROL OFFICERS	150
MK05	219.362-042	POLICY-CHANGE CLERK	113
OF04	45.1001	POLITICAL SCIENCE & GOVERNMENT	129
SK07	77693928	PORTABLE MACHINE CUTTERS	172
OF03	243.367-014	POST-OFFICE CLERK	126
OF03	44757305	POSTAL MAIL CARRIERS	125

ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
OF02	44757308	POSTAL SERVICE CLERKS	122
OF02	216.587-014	POSTING CLERK (TRANSCRIBING)	123
OF06	11515002	POSTMASTERS, MAIL SUPERINTENDENT	134
TC01	77795028	POWER DISTRIBUTORS & DISPATCHERS	210
SK07	617.685-026	POWER-PRESS TENDER	173
SK05	850.683-030	POWER-SHOVEL OPERATOR	167
TC01	631.684-010	POWERHOUSE-MECHANIC HELPER	211
HE04	17.0605	PRACTICAL NURSING	71
SV05	13.1204	PRE-ELEMENTARY EDUCATION	195
TC06	77693199	PRECISION ASSEMBLERS (NO DETAIL)	225
HE02	77489921	PRECISION DENTAL LABORATORY TECH	64
SK08	77489911	PRECISION DETAIL DESIGN	175
SK08	77489902	PRECISION FOUNDRY MOLD/CORE	175
SK07	77183002	PRECISION INSPECTORS, GRADERS	172
TC06	77489105	PRECISION INSTRUMENT MAKERS	225
TC06	77285905	PRECISION INSTRUMENT REPAIRERS	225
SK08	77489117	PRECISION LAYOUT WORKERS: METAL	175
GX04	77489708	PRECISION LITHOGRAPHERS	54
SK08	48.0501	PRECISION METAL WORK, GENERAL	176
SK08	77489905	PRECISION MOLDERS, SHAPERS	175
SK08	77489908	PRECISION PATTERN, MODELMAKERS	175
GX04	77489914	PRECISION PHOTOGRAPHIC PROCESS	54
TC06	77489999	PRECISION PRODUCTION (NO DETAIL)	225
SK08	77693108	PRECISION STRUCT. METAL FITTERS	175
GX04	77489702	PRECISION TYPESETTERS	54
GX04	627.281-010	PRESS MAINTAINER	55
GX04	651.362-010	PRESS OPERATOR (PRINT./PUB.)	55
TC07	583.685-086	PRESS OPERATOR (TEXTILE)	229
SK07	77591305	PRESS, BRAKE MACH.SETTER/OP.,M/P	172
TC07	77693921	PRESSERS, HAND	228
TC07	77592728	PRESSING MACH. OPERATOR: TEXTILES	228
GX04	976.685-026	PRINT DEVELOPER, AUTOMATIC	55
GX04	77592543	PRINTING PRESS MACHINE OPERATOR	54
PS03	55363035	PRIVATE INVESTIGATOR, DETECTIVE	150
SK09	822.281-022	PRIVATE-BRANCH-EXCHANGE INSTALLER (UTILITY)	179
MK03	44555326	PROCUREMENT CLERKS	104
GX03	22834056	PRODUCERS, ACTORS, ENTERTAINERS	51
OF02	221.382-018	PRODUCTION CLERK	123
SK07	77183004	PRODUCTION INSPECTORS, GRADERS	172
SK01	726.381-014	PRODUCTION REPAIRER (ELECTRONICS)	155
MK03	44858008	PRODUCTION, EXPEDITING CLERKS	104
OF06	22939999	PROFESSIONAL/TECHN. (NO DETAIL)	134
SV09	195.227-010	PROGRAM AIDE, GROUP WORK	204
SV09	187.117-046	PROGRAM DIRECTOR, GROUP WORK	204
OF08	020.162-014	PROGRAMMER, BUSINESS	141
OF08	020.187-010	PROGRAMMER, INFORMATION SYSTEM	141
OF08	22325111	PROGRAMMERS: TOOL, NUMERICAL	140
MK06	217.382-010	PROOF-MACHINE OPERATOR (FINAN. INST.)	116
GX04	44353911	PROOFREADERS & COPY MARKERS	54
MK01	11515011	PROPERTY, REAL ESTATE MANAGEMENT	98
PS03	55363099	PROTECTIVE SERVICE (NO DETAIL)	150
SK01	822.361-018	PROTECTIVE-SIGNAL INSTALLER	155
HE05	55666014	PSYCHIATRIC AIDES	73

ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
HE09	22427108	PSYCHOLOGISTS	85
HE09	42.0101	PSYCHOLOGY, GENERAL	86
OF06	44.0401	PUBLIC ADMINISTRATION	135
OF06	11919002	PUBLIC ADMINISTRATION EXECUTIVES	134
LA01	44.9999	PUBLIC AFFAIRS, OTHER	89
GX01	22834008	PUBLIC RELATIONS SPECIALISTS	45
GX01	165.067-010	PUBLIC-RELATIONS REPRESENTATIVE	46
TC04	954.382-010	PUMP-STATION OPERATOR, WATERWORKS	220
MK02	162.157-038	PURCHASING AGENT	102
MK03	22021308	PURCHASING AGENTS	104
MK03	11313008	PURCHASING MANAGERS	104
GX05	10.0104	RADIO & TV PRODUCTION & BROADCASTING TECHNOLO	58
SK01	77285514	RADIO MECHANICS	154
SK01	22939008	RADIO OPERATORS	154
GX05	09.0601	RADIO/TELEVISION NEWS BROADCASTING	58
GX05	09.0701	RADIO/TELEVISION, GENERAL	58
HE07	17.0209	RADIOLOGIC (MEDICAL) TECHNOLOGY	80
HE07	078.362-026	RADIOLOGIC TECHNICIAN	80
HE07	22732921	RADIOLOGIC TECHNICIANS	79
SK06	77285317	RAIL CAR REPAIRERS	169
SK05	77897308	RAIL YARD ENGINEERS, DINKEY OPER.	166
SK05	77387714	RAIL-TRACK LAYING EQUIP. OPER.	166
SK01	77897317	RAILROAD BRAKE, SIGNAL, SWITCH	154
SV02	77897302	RAILROAD CONDUCTORS, YARDMASTERS	185
AG02	02.0409	RANGE MANAGEMENT	30
AG02	040.061-046	RANGE MANAGER	30
SV02	214.267-010	RATE ANALYST, FREIGHT	186
SV05	13.1315	READING EDUCATION	195
MK01	06.1701	REAL ESTATE	99
MK01	44353914	REAL ESTATE CLERKS	98
MK01	219.362-046	REAL-ESTATE CLERK	99
OF03	237.367-038	RECEPTIONIST	126
OF03	07.0707	RECEPTIONIST & COMMUNICATION SYSTEM	126
OF03	44555305	RECEPTIONISTS, INFORMATION CLERKS	125
GX03	194.362-010	RECORDING ENGINEER (SOUND RECORDING TECHN.)	52
MK04	195.227-014	RECREATION LEADER	110
MK04	187.137-010	RECREATION SUPERVISOR	110
HE06	22732317	RECREATION THERAPISTS	76
MK04	22427311	RECREATION WORKERS	109
SK02	637.261-026	REFRIGERATION MECHANIC	158
SV01	77998705	REFUSE COLLECTORS	182
HE08	22732502	REGISTERED NURSES	82
OF03	205.367-046	REHABILITATION CLERK	126
HE06	17.0407	REHABILITATION COUNSELING	77
SK04	77387314	REINFORCING METAL WORKERS	163
SV08	38.0201	RELIGION	202
SV08	39.0401	RELIGIOUS EDUCATION	202
TC10	03.0101	RENEWABLE NATURAL RESOURCES, GENERAL	238
SK04	769.684-038	REPAIRER, ASSEMBLED WOOD PRODUCTS	164
GX05	22834011	REPORTERS & CORRESPONDENTS	57
MK04	238.362-014	RESERVATION CLERK	110
MK04	44353805	RESERVATION TICKET AGENTS	109
MK04	238.367-018	RESERVATIONS AGENT	110

ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
SV05	187.167-186	RESIDENCE SUPERVISOR	195
HE06	22732302	RESPIRATORY THERAPISTS	76
HE06	17.0210	RESPIRATORY THERAPY TECHNOLOGY	77
MK03	08.0705	RETAILING	105
SK05	77285935	RIGGERS	166
SV06	77592921	ROASTING, DRYING OPER., FOOD/TOB.	197
SK05	850.683-034	ROCK-DRILL OPERATOR 1	167
SK05	77387923	ROOF BOLTERS	166
SK04	866.381-010	ROOFER	164
SK04	77387808	ROOFERS	163
SK05	77387911	ROTARY DRILL OPERATORS	166
SK05	77387921	ROUSTABOUTS	166
TC07	783.381-026	SADDLE MAKER	229
TC04	22122132	SAFETY ENGINEERS, EXCEPT MINING	219
TC04	168.264-014	SAFETY INSPECTOR	220
MK03	33949999	SALES & RELATED OCC. (NO DETAIL)	104
MK05	250.257-010	SALES AGENT, INSURANCE	113
MK06	33343017	SALES AGENTS: BUSINESS SERVICES	115
MK06	33343014	SALES AGENTS: FINANCIAL SERVICES	115
MK05	33343002	SALES AGENTS: INSURANCE	112
MK01	33343008	SALES AGENTS: REAL ESTATE	98
MK03	290.477-014	SALES CLERK	105
MK03	290.477-018	SALES CLERK, FOOD	105
OF02	221.367-062	SALES CORRESPONDENT	123
MK03	44858026	SALES ORDER FILLERS	104
MK03	33949011	SALES PERSONS: RETAIL	104
MK03	275.357-034	SALES REP, OFFICE MACHINES	105
MK03	275.257-010	SALES REP., COMPUTERS & EDP SYSTEMS	105
MK03	279.357-014	SALES REP., GENERAL MERCHANDISE	105
MK03	259.357-022	SALES REP., TV CABLE SERVICE	105
MK03	254.357-014	SALES REPRESENTATIVE, ADVERTISING	105
MK03	271.257-010	SALES REPRESENTATIVE, COMMUN	105
AG01	272.357-014	SALES REPRESENTATIVE, FARM A	27
MK03	260.357-014	SALES REPRESENTATIVE, FOOD PRODUCTS	105
MK03	279.357-034	SALES REPRESENTATIVE, WATER-	105
MK03	269.357-018	SALES-PROMOTION REPRESENTATI	105
MK03	273.353-010	SALESPERSON, AUTOMOBILES	105
MK03	279.357-046	SALESPERSON, FLYING SQUAD	105
MK03	270.357-030	SALESPERSON, FURNITURE	105
MK03	279.357-050	SALESPERSON, GENERAL HARDWARE	105
MK03	279.357-054	SALESPERSON, GENERAL MERCHANDISE	105
MK03	270.357-034	SALESPERSON, HOUSEHOLD APPLIANCES	105
MK03	279.357-058	SALESPERSON, JEWELRY	105
MK03	261.357-054	SALESPERSON, MEN'S FURNISHINGS	105
MK03	279.357-062	SALESPERSON, PARTS	105
MK03	277.357-058	SALESPERSON, SPORTING GOODS	105
MK03	261.357-066	SALESPERSON, WOMEN'S APPAREL & ACCESSORI	105
TC10	579.484-010	SAMPLER (MINERALS, EARTH)	238
SK07	77591102	SAWING MACH. TOOL SETTER/OP., M/P	172
SK07	77592308	SAWING MACHINE OPERATOR/TENDER	172
SK07	77592302	SAWING MACHINE SETTER/OPERATOR	172
SV05	13.0801	SCHOOL PSYCHOLOGY	195
SV05	13.1316	SCIENCE EDUCATION	195

ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
LA01	059.067-014	SCIENTIFIC LINGUIST	89
SK05	850.683-038	SCRAPER OPERATOR	167
SV05	13.1205	SECONDARY EDUCATION	195
OF05	07.0606	SECRETARIAL	132
OF05	07.0601	SECRETARIAL & RELATED PROGRAMS, GENERAL	132
OF05	07.0699	SECRETARIAL & RELATED PROGRAMS, OTHE	132
OF05	44555101	SECRETARIES	131
OF05	201.362-030	SECRETARY	132
TC07	369.677-010	SELF-SERVICE-LAUNDRY-&-DRY-CLEANING ATTENDANT	229
SK07	77592962	SEPARATING, FILTERING MACH. OP.	172
SK06	185.167-058	SERVICE MANAGER (AUTO)	170
SK06	807.381-022	SERVICE MECHANIC	170
MK03	33343099	SERVICE SALES OCC. (NO DETAIL)	104
SK06	77897805	SERVICE STATION ATTENDANTS	169
TC10	77387917	SERVICE UNIT OPERATORS	237
SV01	55969999	SERVICE WORKERS (NO DETAIL)	182
TC07	77693923	SEWERS, HAND	228
TC07	77592721	SEWING MACH. OPER.: NON-GARMENT	228
TC07	77592717	SEWING MACH. OPERATOR: GARMENT	228
TC07	787.682-046	SEWING-MACHINE OPERATOR	229
TC07	787.682-062	SEWING-MACHINE OPERATOR (CANVAS GOODS)	229
TC07	787.682-042	SEWING-MACHINE OPERATOR (TEX.BAGS)	229
SK04	665.682-034	SHAPER OPERATOR (WOODWORK)	164
SK08	77489132	SHEET METAL WORKERS	175
PS03	377.263-010	SHERIFF, DEPUTY	151
PS03	55363031	SHERIFFS, DEPUTIES, US MARSHALL	150
SK05	850.682-010	SHIELD RUNNER (CONST./HEAVY EQUIP.)	167
MK03	222.387-050	SHIPPING & RECEIVING CLERK	105
TC07	48.0304	SHOE & BOOT REPAIR	229
TC07	77489511	SHOE & LEATHER, PRECISION	228
TC07	77592723	SHOE SEWING MACHINE OPERATOR	228
TC07	788.381-014	SHOEMAKER, CUSTOM	229
SK04	863.684-014	SIDER	164
SK01	77285511	SIGNAL OR SWITCH MAINTAINERS	154
TC07	363.681-010	SILK FINISHER	229
MK02	06.1801	SMALL BUSINESS MANAGEMENT & OWNERSHIP	102
SK06	47.0606	SMALL ENGINE REPAIR	170
SK06	77285328	SMALL ENGINE SPECIALISTS	169
SK06	625.281-034	SMALL-ENGINE MECHANIC	170
SV09	195.107-022	SOCIAL GROUP WORKER	204
SV05	13.1317	SOCIAL SCIENCE EDUCATION	195
SV05	22631210	SOCIAL SCIENCES TEACHERS	194
SV09	45.0101	SOCIAL SCIENCES, GENERAL	204
SV09	22427199	SOCIAL SCIENTISTS (NO DETAIL)	203
SV09	55868034	SOCIAL SERVICE AIDES	203
SV05	13.1318	SOCIAL STUDIES EDUCATION	195
SV09	44.0701	SOCIAL WORK, GENERAL	204
HE06	195.107-034	SOCIAL WORKER, PSYCHIATRIC	77
SV09	22427310	SOCIAL WORKERS	203
SV09	45.1101	SOCIOLOGY	204
OF08	020.262-010	SOFTWARE TECHNICIAN	141
AG04	02.0501	SOIL SCIENCES	35
SK01	829.281-022	SOUND TECHNICIAN	155

ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
SV06	313.131-026	SOUS CHEF	198
LA01	16.0905	SPANISH	89
MK05	22021505	SPECIAL AGENTS, INSURANCE	112
SV05	13.1001	SPECIAL EDUCATION, GENERAL	195
HE06	22732314	SPEECH PATHOLOGISTS, AUDIOLOGISTS	76
SV05	23.1001	SPEECH, DEBATE, & FORENSICS	195
HE06	17.0821	SPEECH-LANGUAGE PATHOLOGY/AUDIOLOGY	77
AG01	408.684-014	SPRAYER, HAND	27
AG07	410.674-022	STABLE ATTENDANT	43
OF01	44353126	STATEMENT CLERKS	119
SK09	822.261-022	STATION INSTALLER-&-REPAIRER (UTILITY)	179
TC01	950.382-026	STATIONARY ENGINEER	211
TC01	77795032	STATIONARY ENGINEERS	210
OF01	216.382-062	STATISTICAL CLERK	120
OF01	44555328	STATISTICAL CLERKS	119
TC02	22325312	STATISTICIANS	213
TC02	27.0501	STATISTICS	214
OF05	202.362-014	STENOGRAPHER	132
OF05	44555302	STENOGRAPHERS	131
OF05	07.0607	STENOGRAPHIC	132
TC03	552.362-022	STILL OPERATOR, BATCH OR CONTINUOUS (CHEM.)	217
MK03	222.387-058	STOCK CLERK	105
MK03	299.367-014	STOCK CLERK, SELF-SERVICE STORE	105
MK03	44858023	STOCK CLERKS	104
MK03	33949021	STOCK CLERKS: SALES FLOOR	104
MK03	219.367-034	STOCK-CONTROL CLERK	105
SK04	77387305	STONE MASONS	163
SK04	005.061-034	STRUCTURAL ENGINEER	164
SK08	77591714	STRUCTURAL METAL FABRICATORS	175
SK08	77387814	STRUCTURAL METAL WORKERS	175
SV05	13.1101	STUDENT COUNSELING & PERSONNEL SERVICES	195
SV01	189.167-046	SUPERINTENDENT, MAINTENANCE	183
TC07	692.130-018	SUPERVISOR (TEXTILE FASTENER FABRICATION)	229
OF08	213.132-010	SUPERVISOR, COMPUTER OPERATIONS	141
AG01	408.137-010	SUPERVISOR, INSECT & DISEASE INSPECTION	27
AG04	406.134-014	SUPERVISOR, PARK WORKERS	35
HE04	22732928	SURGICAL TECHNICIANS	70
HE04	17.0211	SURGICAL TECHNOLOGY	71
TC02	15.0203	SURVEYING & MAPPING TECHNOLOGY	214
TC02	018.167-034	SURVEYOR ASSISTANT, INSTRUMENTS	214
TC02	869.567-010	SURVEYOR HELPER	214
TC02	22122309	SURVEYORS	213
OF03	44757102	SWITCHBOARD OPERATORS	125
OF08	22325102	SYSTEMS ANALYSTS:DATA PROCESSING	140
OF08	003.167-062	SYSTEMS ENGINEER, ELECTRONIC DATA PROCESSING	141
SK05	77897905	TANK CAR & TRUCK LOADERS	166
SK04	842.664-010	TAPER	164
SK04	77387111	TAPERS	163
OF01	22021914	TAX EXAMINERS & COLLECTORS	119
OF01	22021111	TAX PREPARERS	119
OF01	06.1901	TAXATION	120
SV02	913.463-018	TAXI DRIVER	186
SV02	77897114	TAXI DRIVERS & CHAUFFEURS	185

ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
SV02	913.367-010	TAXICAB STARTER	186
AG06	199.261-010	TAXIDERMIST	41
SV05	099.327-010	TEACHER AIDE	195
SV05	249.367-074	TEACHER AIDE II	195
SV05	44353904	TEACHER'S AIDES, EDUC. ASSISTANTS	194
SV05	099.227-030	TEACHER, ADULT EDUCATION	195
SV05	092.227-010	TEACHER, ELEMENTARY SCHOOL	195
SV05	091.221-010	TEACHER, INDUSTRIAL ARTS	195
SV05	092.227-014	TEACHER, KINDERGARTEN	195
SV05	094.227-022	TEACHER, MENTALLY RETARDED	195
SV05	091.227-010	TEACHER, SECONDARY SCHOOL	195
SV05	22631399	TEACHERS, INSTRUCTORS (NO DETAIL)	194
SV05	22631304	TEACHERS: ELEMENTARY SCHOOL	194
SV05	22631301	TEACHERS: PRESCHOOL	194
SV05	22631308	TEACHERS: SECONDARY SCHOOL	194
SV05	22631314	TEACHERS: VOCATIONAL EDUCATION	194
LA03	22631505	TECHNICAL ASSISTANTS: LIBRARY	94
SV05	13.1319	TECHNICAL EDUCATION	195
SK01	22939099	TECHNICIANS (NO DETAIL)	154
SK01	09.0801	TELECOMMUNICATIONS	155
OF03	44757111	TELEGRAPH & TELETYPE OPERATORS	125
OF03	235.662-022	TELEPHONE OPERATOR	126
MK03	299.357-014	TELEPHONE SOLICITOR	105
SK09	77285726	TELEPHONE STATION INSTALLERS (UTILITY)	178
SK09	77285702	TELEPHONE, CABLE TV INSTALLERS (UTILITY)	178
SK01	720.281-018	TELEVISION-&-RADIO REPAIRER	155
SK01	821.281-010	TELEVISION-CABLE INSTALLER	155
MK06	211.362-018	TELLER	116
MK06	44353102	TELLERS	115
OF07	203.582-054	TERMINAL OPERATOR (COMPUTER)	138
OF07	203.362-018	TERMINAL-SYSTEM OPERATOR	138
TC07	77592705	TEXTILE MACHINE OPERATORS	228
SV08	39.0601	THEOLOGICAL STUDIES	202
HE06	22732399	THERAPISTS (NO DETAIL)	76
MK04	238.367-026	TICKET AGENT	110
MK04	344.667-010	TICKET TAKER	110
SK06	915.684-010	TIRE REPAIRER (AUTO.)	170
SK06	77285953	TIRE REPAIRERS & CHANGERS	169
MK01	22528306	TITLE EXAMINERS & CLERKS	98
SK07	77489102	TOOL & DIE MAKERS	172
SK05	850.683-042	TOWER-EXCAVATOR OPERATOR	167
SV05	13.1320	TRADE AND INDUSTRIAL EDUCATION	195
MK04	252.257-010	TRAFFIC AGENT	110
OF02	209.382-022	TRAFFIC CLERK	123
MK03	44858028	TRAFFIC, SHIPPING CLERKS	104
OF02	44353108	TRANSIT CLERKS	122
SK06	620.281-062	TRANSMISSION MECHANIC	170
OF06	06.0705	TRANSPORTATION MANAGEMENT	135
MK04	252.157-010	TRAVEL AGENT	110
MK04	33343021	TRAVEL AGENTS	109
MK04	44353802	TRAVEL CLERKS	109
TC04	630.281-038	TREATMENT-PLANT MECHANIC (WATERWORKS)	220
AG05	454.684-026	TREE CUTTER	38



ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
SV02	905.687-010	TRUCK DRIVER HELPER	186
SK05	905.663-014	TRUCK DRIVER, HEAVY	167
SV02	906.683-022	TRUCK DRIVER, LIGHT	186
SK05	77897101	TRUCK DRIVERS	166
SK06	807.281-010	TRUCK-BODY BUILDER	170
SK06	620.281-066	TUNE-UP MECHANIC	170
GX03	22834026	TV & MOTION PIC. CAMERA OPERATOR	51
GX04	77592541	TYPESETTING MACH. OPERATOR/TEND.	54
OF02	07.0701	TYPING, GENERAL OFFICE & RELATED, GENERAL	123
OF02	44555307	TYPISTS	122
SK05	77897932	UNDERGROUND LOADING MACH. OPER.	166
MK05	169.167-058	UNDERWRITER	113
MK05	22021102	UNDERWRITERS	112
MK05	219.367-038	UNDERWRITING CLERK	113
TC07	77489508	UPHOLSTERERS	228
TC02	22427105	URBAN & REGIONAL PLANNERS	213
SK06	620.684-034	USED-CAR RENOVATOR	170
MK04	55868021	USHERS & TICKET TAKERS	109
OF03	44555335	UTILITIES CUSTOMER SERVICE REPS	125
SK05	850.683-046	UTILITY-TRACTOR OPERATOR	167
SV02	905.663-018	VAN DRIVER	186
SV02	77998905	VEHICLE, EQUIPMENT CLEANERS	185
AG07	22732114	VETERINARIANS, VET. INSPECTORS	42
GX03	50.0101	VISUAL & PERFORMING ARTS, GENERAL	52
SV05	22631514	VOCATIONAL & EDUC. COUNSELORS	194
SV10	311.477-018	WAITER/WAITRESS, BAR	207
SV10	311.477-026	WAITER/WAITRESS, FORMAL	207
SV10	311.477-030	WAITER/WAITRESS, INFORMAL	207
SV10	311.477-038	WAITER/WAITRESS, TAKE-OUT	207
SV10	55565008	WAITERS & WAITRESSES	206
TC04	15.0506	WASTE & WASTEWATER TECHNOLOGY	220
TC06	47.0408	WATCH REPAIR	226
TC06	77285917	WATCHMAKERS	225
TC04	77795002	WATER & WASTE TREAT. PLANT OPER.	219
SK02	862.684-034	WATER-SOFTENER SERVICER-&INSTALLER	158
MK03	44858017	WEIGHERS, MEASURERS, CHECKERS	104
SK03	810.384-014	WELDER, ARC	161
SK03	819.384-010	WELDER, COMBINATION	161
SK03	819.684-010	WELDER, PRODUCTION LINE	161
SK03	77693914	WELDERS & CUTTERS	160
SK03	48.0508	WELDING	161
SV09	44353502	WELFARE ELIGIBILITY WORKERS	203
TC04	77897911	WELL HEAD PUMPERS	219
SK05	859.362-010	WELL-DRILL OPERATOR	167
MK02	22021302	WHOLESALE & RETAIL BUYERS	101
AG06	03.0601	WILDLIFE MANAGEMENT	41
SK07	77489308	WOOD MACHINISTS	172
SK07	77592314	WOODWORKING MACHINE OPERATORS	172
SK07	77592311	WOODWORKING MACHINE SETTER/OPER.	172
SK04	669.686-034	WOODWORKING-MACHINE OPERATOR	164
SK04	769.687-054	WOODWORKING-SHOP HAND	164
OF07	07.0801	WORD PROCESSING	138
OF07	203.362-022	WORD-PROCESSING-MACHINE OPERATOR	138

ALPHABETICAL LISTING OF  
OCCUPATION AND TRAINING PROGRAM TITLES  
(continued)

CLUSTER #	CODE	TITLE	PAGE
GX01	131.267-026	WRITER, TECHNICAL PUBLICATIONS	46
GX01	22834001	WRITERS, AUTHORS & EDITORS	45
SK05	929.137-030	YARD SUPERVISOR, BUILDING MATERIALS	167
AG06	26.0701	ZOOLOGY, GENERAL	41



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DEPARTMENT OF LABOR & INDUSTRY  
P.O. BOX 1723  
HELENA, MONTANA 59624

OFFICIAL BUSINESS

(6610)

SPECIAL DELIVERY

500 copies of this publication were produced at a unit cost of \$2.53 per copy, for a total cost of \$1,265.00, which includes \$1,500.00 for printing and \$265.00 for distribution.